HWBBL57	868349	6909	204 - 428		H0580: 1 and L0763: 1.
HWBBL03	923691	6910	50 - 217	Asn-32 to Thr-39, Gly-46 to Phe-56.	H0580: 1, L0369: 1 and L0517: 1.
HWBBF60	740125	6911	3 - 257		H0580: 1 and L0754: 1.
HWBBE52	868358	6912	150 - 365	Arg-19 to Asn-33, Leu-52 to Trp-66.	AR054: 7, AR051: 4, AR050: 2 L0748: 2, H0580: 1, L0772: 1, L0771: 1, L0774: 1, L0776: 1 and L0758: 1.
HWBBD23	675360	6913	1 - 276	Arg-1 to Gly-8.	H0580: 1 and L0602: 1.
HWBAX77	771958	6914	126 - 521	Gly-7 to Leu-12, Ser-60 to Cys-66.	H0580: 1 and L0754: 1.
HWBAT83	780976	6915	1 - 426		H0580: 1 and L0745: 1.
HWBAS96	796126	6916	1 - 186	Ser-18 to Thr-23.	H0580: 1 and L0748: 1.
HWBAR29	690422	6917	51 - 302	Lys-15 to Ala-23, Ala-26 to Leu-34, Gly-46 to Cys-56.	H0580: 1 and L0740: 1.
HWBAQ71	944080	6918	3 - 470	Thr-1 to Ala-11, Thr-24 to Arg-29.	AR089: 3, AR061: 1 H0580: 1 and L0601: 1.
HWBAQ02	919351	6919	102 - 311	Cys-5 to Gln-13, Asn-24 to Arg-29.	L0779: 2 and H0580: 1.
HWBAO50	724135	6920	202 - 402	Leu-39 to Thr-44.	L0766: 2 and H0580: 1.
HWBAO38	709490	6921	195 - 368		L0748: 2 and H0580: 1.
HWBAK65	747731	6922	277 - 140		L0439: 3 and H0580: 1.
HWBAJ13	975117	6923	1649 - 1440	Thr-12 to Gly-19.	AR061: 2, AR089: 2 H0580: 1
HWBAH72	766073	6924	227 - 469		L0439: 2 and H0580: 1.
HWBAH16	661664	6925	3 - 269	Gln-9 to Asn-14.	H0580: 1, L0748: 1 and L0749: 1.
HWBAF43	715111	6926	329 - 550	Ser-27 to Arg-33, Thr-61 to Pro-67.	H0580: 1 and L0748: 1.
HWBAF09	625401	6927	108 - 278		H0580: 1 and L0766: 1.
HWBAC02	919559	6928	1 - 135	Gln-6 to Asp-21.	H0580: 1 and L0731: 1.
HWAGV04	926759	6929	69 - 371	Gly-3 to Cys-10, Leu-29 to His-34.	H0581: 1 and L0589: 1.
HWAGQ02	953013	6930	550 - 185	Cys-31 to Tyr-37,	L0766: 3, L0748: 2, L0785:

					Lys-90 to Ser-99, Ser-102 to His-109, Gln-112 to Trp-121.	1, H0581: 1, L0763: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0776: 1, L0749: 1, L0779: 1, L0752: 1, L0758: 1 and L0599: 1.
HWAGO42	958373	6931	1 - 489	16683	Pro-24 to Val-31.	H0581: 1 and L0800: 1.
HWAFQ10	961339	6932	733 - 930	16684		L0766: 2 and H0581: 1.
HWAFM60	868436	6933	1 - 315	16685	Asp-7 to Asn-17, Arg-40 to His-47, Pro-80 to Cys-91.	H0581: 1 and L0766: 1.
HWAFG12	969605	6934	70 - 417	16686	Ala-1 to Gly-10, Arg-33 to Thr-39, Phe-41 to Gly-50, Asp-59 to Gly-66, Arg-73 to Ser-80.	H0581: 1 and L0655: 1.
HWAFE87	949950	6935	121 - 420	16687	Gly-7 to Asp-12, Glu-31 to Ser-43, Val-76 to Ser-86.	AR089: 1, AR061: 1 H0581: 1
HWAFD56	868452	6936	98 - 217	16688	Asp-8 to Cys-15.	H0581: 1 and L0758: 1.
HWAFD10	963323	6937	3 - 131	16689		H0581: 1 and L0662: 1.
HWAFA47	948858	6938	110 - 358	16690	Ser-16 to Ile-22.	AR089: 4, AR061: 1 H0581: 1
HWAFA05	930990	6939	290 - 544	16691	Gln-1 to Arg-11, Pro-33 to Arg-41, Thr-46 to Gly-52, Arg-54 to Cys-75.	L0751: 2, H0581: 1, L0794: 1 and L0752: 1.
HWAEZ81	868460	6940	496 - 257	16692	Gln-1 to Lys-8.	H0581: 1
HWAEZ19	874351	6941	121 - 519	16693	Ser-1 to Ile-7, Phe-27 to Lys-44.	H0581: 1
HWAEU35	887166	6942	1 - 474	16694	Arg-22 to Arg-36.	AR051: 268, AR054: 153, AR050: 68, AR089: 54, AR061: 9 H0581: 1
HWAER10	838763	6943	102 - 275	16695	Glu-52 to Lys-58.	H0581: 1 and L0766: 1.
HWAEP25	951965	6944	2 - 793	16696	Asn-11 to His-19, Gly-31 to Val-37,	H0581: 1 and L0593: 1.

HWAEK27	868494	6945	357 - 578	16697	Thr-65 to Ser-74, Lys-177 to Thr-182, Gly-187 to Asp-199.	H0581: 1 and L0589: 1.
HWAEG71	931547	6946	2 - 553	16698	Asn-1 to Lys-6, Gly-18 to Glu-28, Ser-53 to Thr-58.	AR089: 6, AR061: 1 L0740: 2 and H0581: 1.
HWAEC08	958115	6947	3 - 716	16699	Gln-60 to Ala-68, Trp-132 to Ser-138, Lys-156 to Val-163.	AR061: 0, AR089: 0 H0581: 1, L0803: 1, L0664: 1, L0439: 1 and L0751: 1.
HWADQ35	868526	6948	824 - 630	16700	Leu-32 to Pro-38, Leu-124 to Ala-135.	L0759: 4, H0581: 1, L0055: 1, L0773: 1 and L0777: 1.
HWADO27	682458	6949	222 - 380	16701	Lys-45 to Ser-53.	H0581: 1, L0748: 1 and L0754: 1.
HWADN42	713272	6950	188 - 391	16702	Ser-10 to Gln-18.	H0581: 1, L0661: 1 and L0750: 1.
HWADM84	782685	6951	209 - 373	16703		H0581: 1 and L0439: 1.
HWADI46	891149	6952	2 - 265	16704	Gly-31 to Lys-43.	AR050: 65, AR054: 52, AR051: 41 H0581: 1
HWADE25	677594	6953	314 - 427	16705		L0748: 2 and H0581: 1.
HWADD18	665173	6954	83 - 349	16706		L0794: 2, L0665: 2, H0581: 1, L0438: 1, L0439: 1, L0749: 1, L0757: 1 and L0758: 1.
HWACZ56	733002	6955	3 - 326	16707		H0581: 1 and L0596: 1.
HWACY70	756888	6956	190 - 552	16708	Glu-1 to Lys-31, Ser-56 to Arg-61.	AR089: 6, AR061: 2 H0581: 1 and L0608: 1.
HWACS69	774914	6957	391 - 552	16709		H0581: 1 and L0731: 1.
HWACQ54	729166	6958	80 - 208	16710		H0581: 1 and L0745: 1.
HWACJ56	733013	6959	205 - 414	16711		H0581: 1 and L0748: 1.
HWACI46	718711	6960	383 - 538	16712	Pro-16 to Ile-23.	H0581: 1, L0748: 1 and L0581: 1.
HWACH03	923374	6961	177 - 350	16713	Gly-41 to Ser-46.	H0581: 1, L0748: 1 and

Clone ID	No.	Range	SEQ ID	Region	Clones	Chromosome	Additional
HWACD30	691565	34 - 249	16714		L0749: 1.		
HWABY68	927387	2 - 382	16715	Pro-5 to Arg-19.	L0747: 3 and H0581: 1. L0777: 2 and H0581: 1.	19q13.3	113900, 126340, 126391, 130410, 134790, 138570, 160900, 173850, 258501, 600040, 602225, 602225
HWABV67	751409	145 - 294	16716		H0581: 1 and L0748: 1.		
HWABV34	868535	107 - 280	16717		H0581: 1 and L0747: 1.		
HWABP20	669486	160 - 384	16718	Lys-21 to Arg-27, Ala-29 to Ala-35.	L0748: 2 and H0581: 1.		
HWABP19	951277	33 - 254	16719		H0581: 1 and L0764: 1.		
HWABP02	919442	322 - 423	16720		L0766: 2, H0581: 1 and L0746: 1.		
HWABI13	656767	360 - 602	16721		L0766: 2 and H0581: 1.		
HWABH68	929275	3 - 212	16722		H0581: 1 and L0646: 1.		
HWABG11	949088	1 - 486	16723	Phe-13 to Ile-19.	AR089: 8, AR061: 2 H0581: 1		
HWABD52	726510	4 - 207	16724		L0777: 2 and H0581: 1.		
HWAAY79	791452	45 - 329	16725	Thr-32 to His-38, Thr-46 to Asn-55.	H0581: 1 and L0598: 1.		
HWAAY51	973237	48 - 185	16726	Arg-18 to Asn-26.	H0581: 1		
HWAAX48	721442	144 - 377	16727	Pro-10 to Ser-22, Gly-57 to Cys-62.	H0581: 1, L0805: 1, L0776: 1, L0791: 1, L0663: 1 and L0439: 1.		
HWAAW65	779578	594 - 809	16728	Gly-1 to Arg-14, Leu-32 to Gly-37, Pro-41 to Gly-46.	H0581: 1 and L0748: 1.		
HWAAQ76	887772	3 - 590	16729	His-3 to Ile-9, Leu-13 to Leu-20, Ala-47 to Ser-54, Asn-86 to Pro-93.	AR050: 94, AR051: 77, AR054: 68, L0758: 2, H0581: 1 and L0779: 1.		
HWAAM30	691878	106 - 336	16730	Asn-36 to Glu-42, Pro-53 to Asp-58.	H0581: 1 and L0731: 1.		
HWAAL70	757035	3 - 443	16731		H0581: 1 and L0741: 1.		

HWAAI41	712141	6980	117 - 383	Arg-18 to Phe-32.	H0581: 1 and L0748: 1.		
HWAAF60	751037	6981	2 - 226		H0581: 1 and L0759: 1.		
HWAAE31	841973	6982	105 - 248	Arg-1 to Phe-9, Arg-23 to Gly-31.	H0581: 1, L0766: 1 and L0599: 1.		
HWAAB06	935131	6983	181 - 429	Ser-4 to Ala-12, His-21 to Leu-27, Pro-30 to Glu-35.	L0452: 1 and H0581: 1.		
HUUDR34	944903	6984	2 - 658	Lys-6 to Met-14, Lys-60 to Leu-65, Asp-71 to Lys-76, Arg-78 to Ser-88, Pro-96 to His-101, Glu-109 to Glu-123, Thr-138 to Ala-144, Arg-173 to Asp-180.	L0462: 2, H0656: 1 and L0617: 1.	22q13.1	103050, 103050, 124030, 124030, 138981, 182380, 188826, 190040, 190040, 190040
HUUCS12	969325	6985	403 - 687	Ser-6 to Pro-13.	L0748: 3 and H0656: 1.		
HUUCJ02	940813	6986	594 - 121	Gly-11 to Ile-17, Gln-57 to Gly-64.	H0656: 1 and L0163: 1.		
HUJDJ03	922441	6987	189 - 578	Arg-54 to Ser-61, Pro-79 to Ser-90.	L0523: 2 and H0650: 1.		
HUJDE05	967231	6988	21 - 569	Lys-2 to Ile-11, Asp-76 to Gly-83.	H0650: 1 and L0758: 1.	5q31.1	131400, 147061, 147575, 147575, 147575, 153455, 159000, 181460, 600807, 601596, 602089
HUJCN12	969331	6989	316 - 465		H0650: 1 and L0142: 1.		
HUJBQ04	926196	6990	1 - 120		H0650: 1		
HUJBP01	914512	6991	1 - 330		H0650: 1		
HTYSK94	501001	6992	19 - 285	Arg-28 to Gly-36, Pro-73 to Tyr-80.	H0116: 1		
HTYSK65	500999	6993	126 - 338	His-45 to Tyr-50.	H0116: 1		
HTYSK23	575458	6994	112 - 258		H0116: 1		
HTYND11	965061	6995	93 - 311		L0748: 1 and S0452: 1.		
HTYNC04	926906	6996	167 - 66	Leu-16 to Asn-31.	L0021: 1, L0779: 1 and S0452: 1.		

HTYAA83	537277	6997	424 - 185	16749	Ala-4 to Gly-13.	H0058: 1
HTXSV06	933377	6998	267 - 461	16750	Gln-20 to Gln-26.	H0556: 1 and L0367: 1.
HTXSH08	957886	6999	266 - 463	16751		L0749: 4, L0748: 2, L0777: 2, H0556: 1 and L0471: 1.
HTXSC11	965536	7000	168 - 416	16752	Lys-28 to Met-34, Glu-40 to Ile-45.	H0556: 1
HTXSA04	926338	7001	174 - 413	16753		H0556: 1, L0783: 1 and L0809: 1.
HTXRS08	957919	7002	1 - 183	16754	Pro-8 to Arg-19.	H0556: 1 and L0366: 1.
HTXRA02	918089	7003	2 - 205	16755	Pro-7 to Gly-17.	H0556: 1, L0748: 1 and L0780: 1.
HTXQS11	965084	7004	1 - 447	16756	Val-20 to Ser-37, Asp-110 to Arg-125.	H0556: 1, L0643: 1 and L0749: 1.
HTXQO07	952064	7005	1 - 231	16757		H0556: 1 and L0749: 1.
HTXQM71	869147	7006	192 - 425	16758	Leu-50 to Ile-55.	H0556: 1 and L0766: 1.
HTXQM07	952067	7007	311 - 445	16759		H0556: 1 and L0805: 1.
HTXPX72	916162	7008	132 - 458	16760		H0556: 1 and L0748: 1.
HTXPV03	922905	7009	416 - 664	16761		H0556: 1 and L0745: 1.
HTXOR95	869249	7010	380 - 592	16762		H0556: 1 and L0748: 1.
HTXOO15	869261	7011	55 - 273	16763	Pro-49 to Thr-55.	AR089: 1, AR061: 0 H0556: 1 and L0752: 1.
HTXOO12	872368	7012	30 - 395	16764		12 H0556: 1 and L0761: 1.
HTXOK51	869265	7013	147 - 527	16765	Ser-76 to Gly-82, Gly-89 to Thr-97.	L0362: 2 and H0556: 1.
HTXNJ60	869299	7014	354 - 677	16766	Pro-42 to Arg-47.	H0556: 1 and L0766: 1.
HTXNG04	926992	7015	48 - 557	16767	Pro-20 to Ala-25, Lys-53 to Arg-63, Pro-80 to Gly-89, Ser-139 to Asp-156.	L0749: 5, L0748: 3 and H0556: 1.
HTXNF11	869300	7016	309 - 593	16768		H0556: 1 and L0748: 1.
HTXNA19	953848	7017	562 - 792	16769		H0556: 1 and L0439: 1.
HTXMZ01	915250	7018	107 - 223	16770		H0556: 1 and L0562: 1.
HTXMU37	948611	7019	1 - 204	16771		L0748: 2 and H0556: 1.
HTXMR30	869312	7020	332 - 577	16772		L0758: 2 and H0556: 1.
HTXMJ82	841875	7021	2 - 424	16773	Arg-15 to Ser-22,	H0556: 1 and L0596: 1.

HTXMC72	875290	7022	127 - 399	16774	Ala-30 to Leu-37, Pro-44 to Lys-51, Leu-53 to Arg-65, Pro-123 to Trp-132.	H0556: 1 and L0748: 1.		
HTXLS08	958357	7023	1 - 1152	16775	Asp-1 to Gly-8, Leu-14 to Ser-20.	L0766: 9, L0761: 8, L0779: 3, L0809: 2, L0752: 2, H0556: 1, L0772: 1, L0794: 1 and L0745: 1.		
HTXLN70	756630	7024	409 - 663	16776		H0556: 1 and L0748: 1.		
HTXLI10	963602	7025	235 - 471	16777		H0556: 1 and L0794: 1.		
HTXKP30	487401	7026	138 - 335	16778		H0556: 1		
	494070	9612	164 - 3	19364	Asp-13 to Phe-19, Arg-46 to Leu-54.			
HTXKN65	869345	7027	71 - 241	16779	Met-1 to Asn-8, Gln-19 to Ser-24.	H0556: 1 and L0369: 1.		
HTXKM37	869347	7028	24 - 236	16780	Lys-8 to Pro-19.	H0556: 1 and L0768: 1.		
HTXKM24	677101	7029	117 - 284	16781	Lys-6 to Thr-11.	H0556: 1 and L0748: 1.		
HTXKK96	796330	7030	321 - 515	16782	Gly-51 to Pro-65.	H0556: 1 and L0596: 1.		
HTXKK31	697838	7031	208 - 447	16783	Ser-74 to Ile-80.	H0556: 1 and L0756: 1.		
HTXKF02	919683	7032	3 - 251	16784	Leu-2 to Ser-14, Ser-26 to Ala-34, Pro-43 to Gly-49.	H0556: 1, L0743: 1 and L0744: 1.	11p15.5	125852, 126452, 126452, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 600856, 601680, 602631, 602631
HTXKC64	746471	7033	203 - 481	16785	Ile-9 to Asn-18.	H0556: 1 and L0748: 1.		
HTXJX77	870446	7034	94 - 606	16786	Gln-25 to Thr-30,	H0556: 1 and L0596: 1.		

355

					Ser-45 to Lys-54.	
HTXJR61	741746	7035	941 - 693	16787	Lys-1 to Leu-6.	L0439: 3, H0556: 1 and L0747: 1.
HTXJP17	663123	7036	77 - 334	16788	Arg-24 to Gly-32, Asp-48 to Ser-55, Pro-58 to Glu-64, Glu-69 to His-86.	L0747: 3, L0758: 2, H0556: 1 and L0515: 1.
HTXJO80	871594	7037	329 - 454	16789		L0748: 2, H0556: 1, L0637: 1 and L0749: 1.
HTXJO78	773508	7038	145 - 282	16790	Leu-7 to Gly-18, Trp-20 to Asn-29.	H0556: 1 and L0755: 1.
HTXJN39	566290	7039	25 - 240	16791	Ala-4 to Glu-9, Asp-31 to Ser-36, Asp-44 to Gln-53.	AR054: 19, AR050: 2, AR051: 1 H0556: 1 and L0592: 1.
HTXJK20	423763	7040	122 - 349	16792	Lys-1 to Arg-14, Thr-38 to Cys-50.	H0556: 1 and L0591: 1.
HTXJC08	957757	7041	737 - 450	16793		AR054: 16, AR050: 10, AR051: 2 H0556: 1
	972481	9613	410 - 727	19365	Gly-23 to Arg-29, Gly-33 to Ser-42, His-51 to Thr-56, Pro-67 to Ser-79, Ser-84 to Arg-91, Pro-100 to Gly-106.	
HTXJA76	767696	7042	222 - 386	16794	Ser-6 to Thr-12.	H0556: 1
HTXJA32	699152	7043	54 - 344	16795	Ser-2 to Met-7, Pro-18 to Pro-25.	L0599: 2 and H0556: 1.
HTXGH41	712566	7044	4 - 246	16796	Pro-3 to Gln-8, Val-35 to Asp-40.	H0265: 1 and L0749: 1.
HTXGE85	783418	7045	1 - 462	16797		L0743: 3, L0744: 2 and H0265: 1.
HTXFR89	790276	7046	2 - 292	16798	Arg-4 to Cys-16, Pro-18 to Pro-38, Asn-86 to Lys-92.	H0265: 1 and L0750: 1.
HTXFN90	537392	7047	87 - 374	16799	Gly-26 to Leu-31,	H0265: 1

HTXFN73	824543	7048	82 - 285	16800	Gln-35 to Gly-41.	H0265: 1
HTXFN63	745316	7049	96 - 308	16801		H0265: 1
HTXFN53	537391	7050	42 - 305	16802		H0265: 1
HTXFN23	537393	7051	37 - 207	16803		H0265: 1
HTXFH43	537397	7052	28 - 240	16804	Pro-7 to Asn-13, Pro-19 to Tyr-26, Arg-48 to Phe-55.	H0265: 1
HTXFH20	537398	7053	17 - 217	16805	Lys-11 to Cys-21, Thr-41 to Pro-47, Arg-55 to Thr-60.	H0265: 1
HTXFG29	689833	7054	79 - 210	16806		H0265: 1
HTXFF96	796309	7055	543 - 379	16807	Trp-8 to Ala-13, Gly-22 to Ser-28, Met-38 to Pro-45.	H0265: 1
	796314	9614	133 - 321	19366	Lys-7 to Gly-14, His-16 to Asp-22.	
HTXFF93	934438	7056	370 - 558	16808	Arg-6 to Ser-11, Val-36 to Ser-43.	H0265: 1 and L0748: 1.
HTXEY18	869406	7057	132 - 392	16809	Pro-28 to Gly-34.	H0265: 1
HTXEX83	780277	7058	1 - 342	16810		H0265: 1 and L0748: 1.
HTXEE90	789161	7059	120 - 368	16811	Ser-8 to Trp-19, Glu-75 to Pro-83.	L0740: 2 and H0265: 1.
HTXEC96	796561	7060	260 - 132	16812		H0265: 1 and L0748: 1.
HTXEA45	723401	7061	2 - 301	16813	Pro-2 to Ser-11, Arg-36 to Ser-51.	H0265: 1 and L0596: 1.
HTXDZ56	733641	7062	155 - 424	16814	Tyr-39 to Tyr-45.	L0748: 2 and H0265: 1.
HTXDW32	699559	7063	810 - 1070	16815	Ser-58 to Ile-66.	H0265: 1 and L0749: 1.
HTXDJ77	772473	7064	2 - 202	16816	Thr-13 to Thr-19.	H0265: 1 and L0750: 1.
HTXDD24	888612	7065	1 - 276	16817		AR054: 15, AR050: 4, AR051: 3 H0265: 1
HTXCW50	724650	7066	3 - 422	16818	Glu-1 to Asp-9, Lys-29 to Lys-46.	L0809: 4, L0803: 2, L0777: 2, H0265: 1, L0774: 1, L0651: 1, L0749: 1 and L0780: 1.

HTXCS84	783262	7067	5 - 82	16819	Glu-18 to Ala-24.	H0265: 1		
HTXBT88	529663	7068	17 - 286	16820	Val-1 to Ser-12, Gly-14 to Thr-22, Arg-63 to Ala-71.	H0265: 1		
HTXAW03	921906	7069	92 - 376	16821		H0265: 1, L0769: 1, L0509: 1, L0439: 1, L0747: 1 and L0755: 1.		
HTXAK96	796612	7070	360 - 485	16822	Lys-1 to Trp-8.	H0265: 1 and L0748: 1.		
HTXAJ34	707050	7071	196 - 318	16823	Tyr-13 to Phe-18.	H0265: 1 and L0754: 1.		
HTWLI77	839177	7072	1 - 411	16824	Pro-30 to Pro-38.	H0576: 1		
HTWLF58	869478	7073	131 - 433	16825	Pro-51 to Gly-58.	L0766: 1, H0576: 1 and L0779: 1.		
HTWLD61	741610	7074	3 - 218	16826	Ala-6 to Met-16, Pro-39 to Lys-45.	H0576: 1		
HTWLD10	964195	7075	85 - 189	16827		L0803: 1 and H0576: 1.		
HTWLC51	725533	7076	94 - 201	16828		L0748: 2, L0766: 1, H0576: 1 and L0779: 1.		
HTWKZ86	785318	7077	121 - 279	16829	Lys-15 to Ser-20, Glu-28 to Trp-36, Lys-38 to Lys-49.	H0576: 1		
HTWKZ46	718872	7078	160 - 354	16830	Ala-50 to Asn-63.	H0576: 1		
HTWKZ35	494833	7079	2 - 127	16831		H0576: 1		
HTWKZ28	686254	7080	177 - 395	16832	Ser-1 to Val-10, Gln-20 to Ser-29, Pro-54 to Cys-67.	H0576: 1		
HTWKZ27	812689	7081	142 - 303	16833		H0576: 1		
HTWKZ15	659934	7082	233 - 367	16834	Leu-7 to Leu-13, Pro-15 to Cys-20.	H0576: 1		
HTWKT41	712142	7083	25 - 189	16835	Trp-14 to Ser-25.	L0766: 1, H0576: 1 and L0754: 1.		
HTWKF34	703863	7084	174 - 320	16836		L0748: 2 and H0576: 1.		
HTWKB07	952841	7085	91 - 321	16837		L0763: 1 and H0576: 1.		
HTWJY36	708338	7086	12 - 251	16838	Pro-27 to Ser-36, Gly-73 to Leu-80.	L0761: 2, L0754: 2, L0766: 1, H0576: 1, L0779: 1, L0780: 1 and L0755: 1.	14q32.1	107280, 107280, 107400, 107400, 122500, 186960, 245200, 601841

HTWJH08	790185	7087	85 - 207	16839	Gly-3 to Cys-12, Lys-33 to Lys-41.	AR061: 1, AR089: 1 H0576: 1		
	846554	9615	85 - 207	19367	Gly-3 to Cys-12, Lys-33 to Lys-41.			
HTWJF89	805706	7088	45 - 323	16840	Glu-1 to Ser-9, Ser-30 to Ala-36, Gln-61 to Tyr-66.	H0576: 1 and L0748: 1.		
HTWJF50	911448	7089	916 - 1434	16841	Thr-12 to Trp-20, Pro-29 to Arg-35, Leu-51 to Arg-58, Arg-100 to Arg-108, Cys-120 to Arg-125, Pro-150 to Arg-163.	L0766: 1 and H0576: 1.		
HTWJA79	559919	7090	2 - 226	16842	Leu-38 to Lys-43, Ser-52 to Cys-58.	H0576: 1		
HTWFQ19	586124	7091	2 - 196	16843		AR054: 180, AR050: 146, AR051: 125, AR089: 10, AR061: 4 H0436: 1		
HTWFM90	582285	7092	59 - 187	16844	Leu-16 to Ser-29.	H0436: 1		
HTWFM89	786805	7093	110 - 301	16845	Gly-1 to Tyr-13, Arg-26 to Lys-39.	H0436: 1		
HTWFM79	841983	7094	19 - 186	16846	Ser-43 to Tyr-49.	L0766: 1 and H0436: 1.		
HTWFM71	760303	7095	18 - 242	16847	Leu-7 to Leu-14, Pro-16 to Glu-23, Thr-36 to Glu-51.	H0576: 1		
HTWFM48	721587	7096	1 - 114	16848	Val-14 to Leu-27.	H0436: 1		
HTWFJ71	869491	7097	346 - 609	16849	Gly-38 to Glu-48.	L0770: 1 and H0436: 1.		
HTWFH75	767251	7098	352 - 498	16850		H0436: 1 and L0748: 1.		
HTWFH73	761686	7099	239 - 460	16851		H0436: 1 and L0777: 1.		
HTWFH42	713667	7100	395 - 523	16852		H0436: 1, L0748: 1 and L0749: 1.		
HTWFG29	800193	7101	1 - 93	16853	Phe-13 to Glu-20.	H0436: 1		
HTWFD63	745010	7102	1 - 183	16854	Lys-21 to Lys-27, Arg-32 to Ser-37.	L0748: 2 and H0436: 1.		
HTWEY89	864553	7103	2 - 229	16855	Met-50 to Glu-63,	H0436: 1 and L0740: 1.	8q13	122560, 214400,

Clone	No.	ID	Range	SEQ ID	Amino acid region	Library info	Cytogenetic	Accession
HTWEO90	788859	7104	316 - 522	16856	Ser-70 to Pro-76.	L0745: 9 and H0436: 1.		602476
HTWEJ74	765512	7105	64 - 228	16857		H0436: 1 and L0756: 1.		
HTWEH76	876853	7106	319 - 639	16858	Val-1 to Thr-16.	H0436: 1 and L0601: 1.		
HTWEC75	767264	7107	426 - 581	16859	Lys-1 to Glu-10, Leu-15 to Leu-22, Glu-35 to Asn-41.	L0745: 4, L0750: 2 and H0436: 1.		
HTWDR91	869526	7108	130 - 447	16860		H0436: 1		
HTWDO06	935644	7109	211 - 345	16861	Leu-23 to Gly-32.	L0809: 1 and H0436: 1.		
HTWDK68	753086	7110	253 - 399	16862	Met-36 to Asn-43.	H0436: 1 and L0608: 1.		
HTWDJ42	713869	7111	105 - 269	16863	Gly-5 to His-13, Lys-22 to Glu-27.	H0436: 1 and L0748: 1.		
HTWDI49	723047	7112	138 - 281	16864	Ser-24 to Trp-32.	L0745: 2, H0436: 1 and L0780: 1.		
HTWDE70	844831	7113	188 - 358	16865		H0436: 1		
	859421	9616	123 - 239	19368				
HTWCL86	575978	7114	134 - 229	16866		H0436: 1		
HTWCJ08	959591	7115	201 - 413	16867	Asn-22 to Asp-27, Leu-31 to Lys-36.	H0436: 1 and L0758: 1.		
HTWCG06	935642	7116	215 - 319	16868	Thr-1 to Pro-9.	L0766: 1 and H0436: 1.		
HTWCD06	935646	7117	387 - 542	16869		L0517: 1 and H0436: 1.		
HTWCB69	729244	7118	27 - 290	16870	Gly-32 to Gly-38, Gly-41 to Gln-53, His-58 to Phe-69.	H0436: 1 and L0748: 1.		
HTWBW72	772117	7119	244 - 2	16871		H0436: 1 and L0439: 1.		
HTWBV33	594496	7120	1053 - 769	16872		H0436: 1		
	701754	9617	344 - 189	19369				
	813291	9618	299 - 517	19370	Pro-37 to His-49, Thr-56 to Lys-64.			
HTWBV03	869549	7121	483 - 650	16873		L0766: 5, H0436: 1 and L0740: 1.	3p23-p21	139330, 139360, 150250, 164500, 182280, 227646, 261510, 600163, 600971, 601154, 601226, 601267, 601373

HTWBT62	742588	7122	26 - 208	16874	Glu-6 to Lys-13, Thr-29 to Glu-39, Arg-48 to Gln-59.	H0436: 1 and L0748: 1.
HTWBP67	751752	7123	102 - 221	16875	Asn-6 to Ser-15.	H0436: 1 and L0747: 1.
HTWBL08	959619	7124	221 - 418	16876		H0436: 1 and L0747: 1.
HTWBI04	922175	7125	132 - 362	16877	Pro-12 to Gly-20.	L0598: 1 and H0436: 1.
HTWBF27	683546	7126	82 - 360	16878		H0436: 1 and L0752: 1.
HTWBE63	745194	7127	181 - 309	16879	Pro-1 to Gly-12.	H0436: 1 and L0753: 1.
HTWBD84	783120	7128	232 - 477	16880	Leu-61 to His-66.	H0436: 1 and L0748: 1.
HTWBD61	604245	7129	285 - 569	16881		H0436: 1
	824129	9619	418 - 167	19371	Ala-49 to Glu-56.	
HTWAM49	722141	7130	235 - 444	16882		H0187: 1 and L0748: 1.
HTWAM48	518825	7131	33 - 308	16883	Ser-59 to Glu-71.	L0605: 2 and H0187: 1.
HTWAM25	677506	7132	744 - 289	16884	Thr-1 to Lys-11.	L0758: 5, L0794: 4, L0803: 3, L0744: 2, L0756: 2, L0435: 1, L0804: 1, L0806: 1, L0805: 1, L0776: 1, L0809: 1, L0789: 1, H0187: 1, L0439: 1, L0751: 1, L0779: 1 and L0591: 1.
HTWAJ11	967845	7133	261 - 443	16885	His-21 to Pro-27.	L0759: 2, L0657: 1 and H0187: 1.
HTWAE31	725127	7134	3 - 191	16886		H0187: 1 and L0439: 1.
HTWAB85	522346	7135	89 - 307	16887		H0187: 1
HTWAB65	533745	7136	151 - 429	16888	Tyr-18 to Lys-31, Ser-50 to Arg-59.	H0187: 1
HTWAB57	735153	7137	24 - 191	16889	Lys-15 to Ile-20.	H0187: 1
HTWAB46	522817	7138	87 - 218	16890		H0187: 1
HTWAB42	714291	7139	23 - 217	16891	Ser-1 to Asp-10, Lys-36 to Glu-43.	H0187: 1
HTWAB32	524291	7140	187 - 321	16892	Leu-7 to Leu-13, Pro-15 to Cys-20, Pro-23 to Cys-28.	H0187: 1
HTWAB27	522796	7141	54 - 134	16893		H0187: 1
HTWAB18	522794	7142	124 - 207	16894		H0187: 1
HTWAA90	789271	7143	196 - 426	16895	Val-3 to Thr-10,	H0187: 1

361

HTWAA79	869563	7144	214 - 405	16896	Glu-31 to Leu-40.	H0187: 1	
HTWAA42	522603	7145	2 - 85	16897	Ser-20 to Leu-28.	H0187: 1	
HTWAA32	522797	7146	281 - 439	16898		H0187: 1	
HTWAA31	915276	7147	77 - 337	16899		H0187: 1	
HTWAA22	425133	7148	48 - 287	16900	Glu-39 to Thr-47.	H0187: 1	
HTWAA17	667166	7149	46 - 276	16901	Ser-17 to Lys-32.	H0187: 1	
HTUAE10	968597	7150	237 - 404	16902		H0185: 1, L0509: 1, L0607: 1 and L0493: 1.	
HTUAA93	522950	7151	1 - 267	16903		H0185: 1	
HTUAA79	773978	7152	196 - 360	16904		H0185: 1	
HTUAA63	522080	7153	3 - 134	16905		H0185: 1	
HTUAA59	556958	7154	151 - 318	16906	Pro-33 to Ser-38.	H0185: 1	
HTUAA55	522805	7155	74 - 226	16907	Thr-4 to Asp-10.	H0185: 1	
HTUAA51	725949	7156	216 - 317	16908	Leu-5 to Phe-11.	L0740: 2 and H0185: 1.	
HTUAA45	526606	7157	3 - 203	16909	Gly-39 to Ile-46.	H0185: 1	
HTUAA42	694535	7158	38 - 115	16910	Gln-15 to Cys-23.	H0185: 1	
HTUAA32	522807	7159	95 - 187	16911	Gln-15 to Phe-20.	H0185: 1	
HTUAA25	575308	7160	168 - 452	16912		L0748: 2 and H0185: 1.	
HTUAA23	575319	7161	165 - 371	16913	Arg-6 to Leu-15, Leu-23 to Gly-28.	H0185: 1	
HTUAA21	575312	7162	2 - 343	16914		H0185: 1	
HTUAA11	967919	7163	57 - 173	16915		H0185: 1	
HTUAA06	960761	7164	229 - 384	16916	Asp-1 to Glu-9, Gly-35 to Gly-42.	H0185: 1	
HTUAA02	921277	7165	178 - 2	16917	Ser-1 to Thr-9, Glu-16 to Leu-22.	H0185: 1	
HTSHI55	576030	7166	129 - 233	16918	His-3 to Tyr-10, Lys-29 to Asn-34.	H0087: 1	
HTSHC81	778008	7167	224 - 370	16919	Pro-10 to Ala-16.	H0087: 1 and L0602: 1.	14q32.3-qter
HTSHB38	709445	7168	3 - 236	16920	Glu-18 to Lys-23, Ser-36 to Arg-41.	L0589: 2 and H0087: 1.	
HTSHB18	666569	7169	20 - 142	16921		H0087: 1, L0438: 1, L0740: 1 and L0758: 1.	
HTSGZ92	975082	7170	1 - 297	16922	Gln-3 to Thr-9.	H0087: 1 and L0809: 1.	
HTSGQ88	576077	7171	3 - 245	16923	Glu-24 to Arg-38,	H0087: 1	

Clone ID	cDNA Clone	SEQ ID NO	Residues	SEQ ID NO (2)	Preferred Features	Clone/Library	Chromosome	Other
HTSGQ42	576078	7172	1 - 282	16924	Ala-69 to Arg-81.	H0087: 1		
HTSGM53	728289	7173	199 - 420	16925	Gly-1 to Glu-6, Pro-15 to Pro-23, Ser-29 to Glu-46, Leu-48 to Asp-66.	L0748: 2 and H0087: 1.		
HTSGL89	787027	7174	336 - 539	16926	Pro-21 to Lys-28.	H0087: 1 and L0753: 1.		
HTSFU94	793056	7175	1 - 267	16927	Asp-64 to Ser-76, Thr-78 to Ala-86.	L0747: 3, H0087: 1 and L0731: 1.		
HTSFF64	747003	7176	2 - 412	16928	Ala-1 to Pro-9, Pro-45 to Pro-55, Pro-63 to Cys-74, Pro-85 to Val-98.	H0087: 1, L0744: 1 and L0731: 1.		
HTSEX79	524280	7177	20 - 253	16929	Gln-16 to Phe-30.	H0087: 1		
HTSEW02	920963	7178	85 - 264	16930	Ser-53 to Phe-59.	L0803: 3, H0087: 1, L0754: 1 and L0749: 1.		
HTSAA20	836021	7179	156 - 350	16931		H0087: 1 and L0748: 1.		
HTOJZ05	869900	7180	2 - 316	16932		H0264: 1		
	869903	9620	472 - 768	19372	Pro-7 to Pro-17.	H0264: 1		
HTOJV25	456941	7181	2 - 199	16933	Asn-1 to Ile-11.	H0264: 1 and L0754: 1.		
HTOJT60	740599	7182	185 - 304	16934		H0264: 1 and L0748: 1.		
HTOJN69	869925	7183	2 - 187	16935		H0264: 1		
HTOJM95	795719	7184	506 - 315	16936		H0264: 1		
	796022	9621	66 - 260	19373		H0264: 1		
HTOJL36	866492	7185	327 - 662	16937	Ser-9 to His-14, Gly-40 to Thr-46.	H0264: 1		
HTOJF70	457041	7186	208 - 408	16938	Glu-30 to Asp-36.	H0264: 1 and L0748: 1.	22q13.31	250100, 250800, 250800
HTOJB05	932423	7187	1 - 258	16939	Ser-24 to Asp-31.	H0264: 1, L0748: 1 and L0745: 1.		
HTOIZ49	586144	7188	28 - 219	16940		AR054: 35, AR050: 33, AR051: 28; H0264: 1		
HTOIX57	735004	7189	156 - 341	16941	Asn-36 to His-48.	L0748: 2 and H0264: 1.		
HTOIQ30	584928	7190	252 - 407	16942		H0264: 1 and L0749: 1.		
HTOIL74	765840	7191	1 - 384	16943	Thr-53 to Pro-58,	H0264: 1 and L0747: 1.		

					His-103 to Leu-109, Gln-112 to Trp-126.	
HTOIK90	557829	7192	130 - 273	16944	Gln-14 to Tyr-22.	H0264: 1
HTOIJ84	783212	7193	342 - 500	16945	Gln-1 to Arg-8.	L0754: 2 and H0264: 1.
HTOIH68	753595	7194	201 - 371	16946	Pro-11 to Gly-16.	H0264: 1 and L0605: 1.
HTOIH09	961168	7195	59 - 190	16947		S0005: 1 and H0264: 1.
HTOIF08	959992	7196	162 - 488	16948	Pro-1 to Arg-10.	L0459: 1, H0264: 1, L0744: 1 and L0752: 1.
HTOIA89	787088	7197	491 - 252	16949	Lys-1 to Lys-7.	H0264: 1 and L0748: 1.
HTOIA82	844319	7198	41 - 286	16950	Arg-44 to Gly-59.	AR061: 4, AR089: 2 H0264: 1 and L0754: 1.
HTOHZ59	869950	7199	26 - 355	16951	Ser-10 to Glu-16, Asp-28 to Pro-36.	H0264: 1, L0517: 1 and L0596: 1.
HTOHX62	537358	7200	3 - 92	16952	Glu-1 to Ile-15.	AR051: 11, AR054: 1, AR050: 1 H0264: 1
HTOHT93	791459	7201	162 - 440	16953	Pro-64 to Thr-70.	H0264: 1 and L0366: 1.
HTOHR03	924976	7202	6 - 329	16954	Arg-13 to Gln-21, Phe-25 to Ser-33, Pro-85 to Lys-92.	L0794: 2 and H0264: 1.
HTOHN89	956264	7203	167 - 427	16955	Asn-42 to Lys-54.	H0264: 1, L0748: 1 and L0749: 1.
HTOHI14	659280	7204	119 - 478	16956		H0264: 1
HTOHH78	963216	7205	544 - 888	16957	Thr-4 to Cys-15, Glu-31 to Arg-36, Gln-68 to Trp-80, Ser-98 to Glu-105.	L0601: 2 and H0264: 1.
HTOHG68	964961	7206	1 - 183	16958	Ser-10 to Pro-19, Thr-23 to Arg-35, Asn-56 to Arg-61.	H0264: 1 and L0753: 1.
HTOGU88	558488	7207	100 - 285	16959		H0264: 1
HTOGU78	529798	7208	52 - 138	16960		H0264: 1
HTOGU77	523533	7209	40 - 132	16961	Ser-1 to Ser-7.	H0264: 1
HTOGC91	790438	7210	308 - 463	16962		H0264: 1 and L0439: 1.
HTOFV57	529614	7211	35 - 184	16963	Asn-1 to Glu-14.	H0264: 1
HTOFV08	960203	7212	1 - 150	16964	Ala-11 to Tyr-16,	H0264: 1

Clone	Accession	SEQ ID	Range	SEQ ID	Amino acid	Reference
HTOFU55	732454	7213	77 - 196	16965	Lys-43 to Pro-50.	H0264: 1 and L0749: 1.
HTOFT20	527938	7214	1 - 60	16966	Glu-9 to Tyr-16.	H0264: 1
HTOFS74	765918	7215	46 - 174	16967	Pro-15 to Leu-20.	H0264: 1 and L0599: 1.
HTOFO18	911756	7216	1179 - 1376	16968	Pro-1 to Trp-13.	H0264: 1
	911956	9622	980 - 1156	19374	Asn-25 to Leu-34.	
HTOFC06	960546	7217	84 - 266	16969		H0264: 1 and L0803: 1.
HTOEX28	936543	7218	280 - 513	16970	Arg-15 to Gly-22.	H0264: 1 and L0747: 1.
HTOEV91	509938	7219	268 - 38	16971	Pro-11 to Tyr-16, Thr-24 to Ser-35.	H0264: 1
	534071	9623	581 - 408	19375	Thr-31 to Gly-36.	
HTOET61	742164	7220	323 - 445	16972		H0264: 1 and L0766: 1.
HTOEE28	685375	7221	83 - 259	16973		H0264: 1
	869988	9624	306 - 530	19376		
HTODM08	960113	7222	2 - 400	16974	Leu-12 to Phe-18.	H0264: 1 and L0755: 1.
HTODL10	968395	7223	1 - 282	16975	Ser-4 to Glu-14, Gln-16 to Ala-24.	H0264: 1 and L0601: 1.
HTODD59	738532	7224	287 - 400	16976	Pro-3 to Gln-11.	H0264: 1 and L0754: 1.
HTODA31	698400	7225	56 - 436	16977	Gln-4 to Ala-19, Ser-63 to Asn-80, Glu-104 to Ile-110, Pro-121 to Lys-127.	L0777: 2 and H0264: 1.
HTOCK85	521944	7226	1 - 201	16978		H0272: 1
HTOCK73	870004	7227	103 - 351	16979	Arg-12 to Tyr-19, Tyr-27 to Thr-33, Asn-62 to Ser-71.	H0272: 1
HTOCK14	529958	7228	2 - 298	16980		H0272: 1
HTOCK03	925368	7229	2 - 124	16981		H0272: 1
HTOCA55	732469	7230	20 - 148	16982	Phe-21 to Lys-33.	H0272: 1
HTOBE60	742315	7231	281 - 469	16983		H0272: 1 and L0748: 1.
HTOBC63	530283	7232	2 - 190	16984	Ile-1 to Asn-6, Gly-10 to Lys-29.	H0272: 1
HTOBC26	870011	7233	1 - 159	16985		H0272: 1
HTOBA33	965151	7234	295 - 525	16986		L0439: 2, H0272: 1 and L0766: 1.

365

HTOAT88	530183	7235	268 - 411		H0264: 1
HTOAT81	530185	7236	1 - 231		H0264: 1
HTOAT68	530187	7237	11 - 187	Arg-1 to Gln-16.	H0264: 1
HTOAT66	530188	7238	62 - 208		H0264: 1
HTOAT63	523754	7239	122 - 292	Ser-1 to Trp-6.	H0264: 1
HTOAT57	870017	7240	19 - 126	Glu-20 to Arg-27.	H0264: 1
HTOAT50	723595	7241	3 - 176		H0264: 1
HTOAT43	529840	7242	52 - 135		H0264: 1
HTOAT35	521914	7243	2 - 100	Asn-1 to Thr-15.	H0264: 1
HTOAT28	530191	7244	180 - 326	Lys-7 to Gly-15.	H0264: 1
HTOAT27	682115	7245	101 - 295	Phe-5 to Ala-10, Glu-12 to Asn-17, Val-21 to Asp-35, Ile-58 to Asp-64.	H0264: 1
HTOAT06	960581	7246	2 - 241		H0264: 1
HTOAO63	745545	7247	440 - 634	Arg-1 to Ile-9.	H0264: 1 and L0748: 1.
HTOAO01	921744	7248	1 - 165		H0264: 1 and L0754: 1.
HTOAM08	960122	7249	23 - 181	Ser-3 to Thr-11.	H0264: 1 and L0758: 1.
HTOAL84	783261	7250	2 - 118	Ser-20 to Thr-27.	H0264: 1 and L0748: 1.
HTOAK39	709579	7251	109 - 435	Pro-83 to Ser-89.	H0264: 1 and L0581: 1.
HTOAI51	529553	7252	44 - 193		H0264: 1
HTOAI25	529556	7253	1 - 105		H0264: 1
HTOAI15	529557	7254	61 - 261		H0264: 1
HTOAD05	932732	7255	261 - 94		H0264: 1 and L0608: 1.
HTOAA73	764707	7256	89 - 217		H0264: 1 and L0599: 1.
HTJNX95	795376	7257	1 - 465	Leu-29 to Lys-36.	H0488: 1 and L0439: 1.
HTJNT65	771995	7258	195 - 311	Ala-1 to Thr-7.	L0731: 2 and H0488: 1.
HTJNF11	966217	7259	232 - 582	Ser-5 to Asp-11, Arg-18 to Asn-27, Pro-33 to Glu-39, Ser-44 to Trp-50.	H0488: 1 and L0766: 1.
HTJMZ89	973076	7260	2 - 181		H0488: 1
HTJMU86	870312	7261	268 - 408	Ser-1 to Ala-7.	H0488: 1 and L0766: 1.
HTJMQ90	974496	7262	98 - 223		H0488: 1
HTJML71	759890	7263	1 - 261	Phe-11 to Thr-21,	H0488: 1 and L0766: 1.

HTHMF56	733444	257 - 481	17016	Leu-67 to Ser-75. Ala-22 to Tyr-28.	H0488: 1 and L0740: 1.
HTJAE78	773609	177 - 404	17017	Thr-13 to Lys-18.	H0487: 1
HTJAD50	724438	149 - 298	17018		H0487: 1 and L0748: 1.
HTHDS68	753137	3 - 230	17019		H0063: 1 and L0748: 1.
HTHDR27	578830	150 - 344	17020	Pro-27 to Ser-33, Ser-39 to Pro-44.	H0063: 1, L0748: 1 and L0749: 1.
HTHDQ05	932174	36 - 302	17021		H0063: 1
HTHDM10	964906	88 - 228	17022	His-16 to Phe-28, Arg-37 to Lys-43.	H0063: 1 and L0769: 1.
HTHDL30	578894	3 - 314	17023		H0063: 1
HTHDJ93	792443	170 - 457	17024	Asp-1 to His-6.	L0759: 2 and H0063: 1.
HTHDF13	490673	381 - 175	17025	Ala-49 to Asn-54.	H0063: 1
HTHDE83	516372	279 - 413	17026	Ser-5 to Asp-11.	H0063: 1
	826819	456 - 304	19377		
HTHDC07	953604	327 - 533	17027	Gln-13 to Glu-21.	H0063: 1 and L0764: 1.
HTHCV69	973309	137 - 343	17028	Pro-28 to Cys-39.	H0063: 1
HTHCU42	578861	3 - 224	17029	Gln-7 to Arg-15, Ser-22 to Cys-29.	H0063: 1
HTHCO72	578758	177 - 323	17030		H0063: 1
HTHCO45	722029	1 - 159	17031	Thr-14 to Gly-22, Ser-40 to Glu-45.	H0063: 1
HTHCK89	694051	276 - 1	17032	Arg-14 to Thr-27, Leu-36 to Gly-42, Arg-51 to Cys-73, Glu-82 to Arg-92.	H0063: 1, L0657: 1 and L0592: 1.
	870359	1 - 489	19378	Gln-31 to Trp-36, Arg-61 to Lys-80, Pro-93 to Thr-100.	
	870365	219 - 539	19379	Thr-19 to Gly-24.	
HTHCG74	578839	1 - 87	17033		H0063: 1
HTHBY73	946168	1 - 360	17034	Asp-38 to Gly-44, Cys-92 to Gly-98, Ala-101 to Trp-106.	AR061: 12, AR089: 9 H0063: 1
HTHBW81	519640	134 - 283	17035	His-40 to Asn-47.	H0063: 1

HTHBW64	625209	9628	485 - 147	19380	Glu-10 to Gln-15.	H0063: 1 and L0754: 1.		
HTHBU25	746955	7284	318 - 563	17036	Ser-12 to Lys-20, Ala-31 to His-36.	L0439: 3 and H0063: 1.		
HTHBT36	961627	7285	294 - 554	17037	Phe-20 to Ser-26, Pro-47 to Thr-55.	H0063: 1 and L0748: 1.		
HTHBM85	458387	7286	146 - 310	17038	Asn-15 to Gln-27, Ser-41 to Gly-47.	H0063: 1 and L0439: 1.	15q24-q25	118485, 231680, 272800, 272800, 272800, 276700, 602685
HTHBM85	790305	7287	1 - 483	17039	Gly-1 to Arg-7.			
HTHBM60	739707	7288	58 - 201	17040	Tyr-21 to Ser-33.	H0063: 1 and L0777: 1.		
HTHBK64	573926	7289	181 - 273	17041	Arg-15 to Leu-20, Gly-24 to Arg-31.	H0063: 1		
HTHBK47	526705	7290	46 - 240	17042		H0063: 1		
HTHBK04	925600	7291	2 - 148	17043	Gly-1 to Arg-9, Gln-15 to Gly-26, Gln-29 to Phe-35.	H0063: 1		
HTHBH32	699557	7292	119 - 589	17044	Thr-7 to Arg-19, Lys-60 to Leu-68, Val-107 to Glu-119.	L0803: 2, L0750: 2, H0063: 1, L0763: 1, L0772: 1 and L0789: 1.		
HTHBG23	410319	7293	3 - 182	17045	Ile-1 to Cys-8, Ser-11 to Leu-22, His-25 to Glu-33.	H0063: 1		
HTHBC07	954440	7294	323 - 213	17046	Ser-9 to Ser-15.	H0063: 1		
HTHBC04	933029	7295	123 - 16	17047		H0063: 1 and L0764: 1.		
HTHAA24	575493	7296	3 - 239	17048	Ser-49 to Asp-54, Lys-56 to Asp-71.	H0062: 1		
HTGGO27	682376	7297	3 - 185	17049	Val-2 to Arg-11.	S0218: 1 and L0754: 1.		
HTGGN71	760059	7298	249 - 428	17050	Phe-1 to Asp-7.	S0218: 1 and L0748: 1.		
HTGGN51	870386	7299	47 - 238	17051		S0218: 1 and L0367: 1.		
HTGFY55	731360	7300	1 - 141	17052	Ala-1 to Ala-7, His-20 to Gly-38.	S0218: 1		
HTGFY05	928205	7301	35 - 145	17053	Leu-7 to His-12.	S0218: 1		
HTGFK70	756534	7302	3 - 131	17054	Gly-7 to Ser-12.	S0218: 1 and L0777: 1.		
HTGEY89	786057	7303	2 - 202	17055	Pro-59 to Trp-67.	S0218: 1		

HTGEY40	711177	7304	76 - 246	17056		S0218: 1		
HTGEX10	963862	7305	301 - 1017	17057	Arg-3 to Ser-9, Arg-11 to Trp-30, Thr-38 to Tyr-49, Thr-101 to Arg-107, Gly-139 to Tyr-146, Tyr-215 to Lys-223.	AR089: 43, AR061: 9 S0218: 1 and L0623: 1.		
HTGEX05	923445	7306	135 - 317	17058	Glu-1 to Arg-10, Ser-26 to Gly-39.	S0218: 1 and L0605: 1.		
HTGEU48	721660	7307	258 - 425	17059	Asp-48 to Phe-55.	S0218: 1 and L0599: 1.		
HTGEG89	786665	7308	28 - 228	17060		S0218: 1 and L0748: 1.		
HTGEG17	662369	7309	254 - 508	17061	Ser-68 to Gly-85.	L0766: 3, S0218: 1, L0789: 1 and L0748: 1.		
HTGED13	656504	7310	119 - 244	17062	Ser-32 to Lys-42.	S0218: 1 and L0748: 1.		
HTGEA37	908606	7311	3 - 122	17063	Pro-21 to Gly-31.	S0218: 1 and L0758: 1.	17q11.2	154275, 162200, 162200, 182138, 239100, 600881, 601954, 602403
HTGDX37	708877	7312	86 - 466	17064		L0748: 2, S0134: 1 and L0749: 1.		
HTGDX10	963854	7313	86 - 316	17065	Ser-8 to Arg-14.	S0134: 1 and L0517: 1.		
HTGDV61	741381	7314	297 - 515	17066		S0134: 1, L0766: 1 and L0749: 1.		
HTGDV52	796065	7315	104 - 364	17067	Asn-13 to Leu-18, Pro-68 to Ser-73.	L0747: 2, S0134: 1, L0439: 1, L0749: 1 and L0756: 1.		
HTGCQ86	784676	7316	3 - 392	17068	Thr-46 to Ser-55.	L0748: 2 and S0134: 1.		
HTGCH60	895628	7317	382 - 134	17069		S0134: 1		
HTGCD55	732247	7318	523 - 678	17070		L0748: 2 and S0134: 1.		
HTGBS94	578786	7319	238 - 399	17071		S0134: 1		
HTGBS70	870405	7320	1 - 120	17072	Glu-14 to Ala-19.	S0134: 1		
HTGBS59	739388	7321	155 - 286	17073		S0134: 1 and L0756: 1.		
HTGBS51	578782	7322	66 - 167	17074		S0134: 1		
HTGBS34	576472	7323	3 - 200	17075		S0134: 1 and L0756: 1.		
HTGBS08	959699	7324	565 - 810	17076	Leu-10 to His-15, Gly-31 to Glu-36, Glu-53 to Gly-65.	L0748: 2 and S0134: 1.		

							16q22	103850, 114835, 121360, 217800, 218030
HTGBR52	727276	7325	230 - 391	17077	Phe-20 to Ser-25.	L0754: 2 and S0134: 1.	16q22	103850, 114835, 121360, 217800, 218030
HTGBN58	738229	7326	114 - 233	17078		S0134: 1 and L0439: 1.		
HTGBL15	660483	7327	225 - 518	17079		S0134: 1 and L0748: 1.		
HTGBH09	625756	7328	7 - 126	17080	Glu-29 to Arg-40.	L0598: 2 and S0134: 1.		
HTGBE67	751525	7329	55 - 228	17081		S0134: 1		
HTGBE59	578807	7330	27 - 185	17082	Lys-1 to Lys-7.	S0134: 1		
HTGBE05	932168	7331	127 - 375	17083	Pro-54 to Pro-59.	S0134: 1		
HTGAZ86	785594	7332	96 - 239	17084		S0134: 1 and L0748: 1.		
HTGAZ75	766583	7333	342 - 479	17085		S0134: 1 and L0748: 1.		
HTGAY27	683556	7334	31 - 252	17086		L0367: 2, S0134: 1, L0370: 1, L0652: 1, L0748: 1 and L0605: 1.		
HTGAX83	781275	7335	1 - 210	17087	Asn-18 to Cys-24, Arg-57 to Pro-70.	S0134: 1 and L0756: 1.		
HTGAW78	773666	7336	199 - 417	17088	Leu-43 to Thr-48.	S0134: 1 and L0766: 1.		
HTGAT92	496307	7337	503 - 297	17089		S0134: 1 and L0766: 1.		
HTGAT55	732248	7338	162 - 446	17090	Pro-23 to Pro-32, Arg-46 to Trp-51.	L0749: 2 and S0134: 1.		
HTGAT16	919524	7339	141 - 356	17091		S0134: 1 and L0748: 1.		
HTGAT01	870424	7340	67 - 372	17092		S0134: 1 and L0766: 1.		
HTGAS15	870423	7341	14 - 223	17093	Lys-11 to Cys-18.	S0134: 1, L0756: 1 and L0759: 1.		
HTGAR44	716740	7342	22 - 309	17094	Trp-49 to Ala-54, His-62 to Asp-71, Gln-88 to Ser-96.	S0134: 1 and L0581: 1.		
HTGAK39	705634	7343	3 - 173	17095	Pro-31 to Gln-36.	S0134: 1 and L0766: 1.		
HTGAJ86	785672	7344	3 - 113	17096	Leu-15 to Arg-24.	S0134: 1 and L0749: 1.		
HTGAJ73	764598	7345	194 - 430	17097	Arg-26 to Glu-31, Gly-51 to Gln-59.	S0134: 1 and L0748: 1.		
HTGAI96	796541	7346	349 - 618	17098	Leu-6 to Gly-11.	S0134: 1, L0748: 1 and L0756: 1.		
HTGAI15	870441	7347	214 - 462	17099		S0134: 1 and L0749: 1.		
HTGAI13	955227	7348	178 - 387	17100	Asn-29 to Lys-37.	S0134: 1 and L0748: 1.		

HTGAD62	754052	7349	1 - 126	17101		S0134: 1 and L0731: 1.
HTGAD16	567432	7350	204 - 554	17102	Gln-29 to Phe-35, Pro-73 to Pro-79, Pro-86 to Pro-99.	AR051: 22, AR050: 19, AR054: 17 S0134: 1
HTGAD05	932378	7351	223 - 372	17103	Ala-13 to Leu-23, Ala-30 to Asp-40.	L0608: 2 and S0134: 1.
HTGAC17	664513	7352	2 - 220	17104	Pro-23 to His-28, Ser-65 to Arg-70.	S0134: 1, L0790: 1 and L0740: 1.
HTGAA80	574099	7353	119 - 277	17105	Pro-10 to Gln-24.	S0134: 1
HTGAA44	574114	7354	42 - 266	17106	Ser-2 to Glu-10, Lys-18 to Gly-28.	S0134: 1
HTDAC74	765656	7355	6 - 311	17107	His-1 to Trp-6, Arg-36 to Gly-67, Pro-73 to Gln-82.	L0361: 2, H0477: 1 and L0601: 1.
HTDAB18	870746	7356	339 - 659	17108	Gly-10 to Ser-17.	H0477: 1 and L0803: 1.
HTBAB07	954434	7357	3 - 224	17109	Gln-1 to Met-6, Pro-9 to Asp-14, Glu-36 to Trp-45, Arg-47 to Glu-58.	H0075: 1 and L0589: 1.
HTBAA86	785846	7358	160 - 420	17110	His-1 to Ala-8.	H0075: 1
HTAJP12	969518	7359	438 - 79	17111	Pro-5 to Arg-10, Gly-71 to Arg-76.	H0635: 1, L0772: 1 and L0662: 1.
HTAJD72	880561	7360	237 - 88	17112		H0635: 1 and L0748: 1.
HTAIY90	973870	7361	202 - 411	17113	Arg-23 to Trp-48.	H0635: 1
HTAIQ05	930947	7362	147 - 359	17114	Ser-35 to Ile-41.	H0635: 1 and L0070: 1.
HTAIG58	838701	7363	288 - 452	17115		L0455: 2 and H0635: 1.
HTAIF22	910040	7364	179 - 457	17116		AR061: 4, AR089: 3 H0635: 1
HTAIF11	965738	7365	3 - 461	17117	Glu-1 to Arg-7, His-87 to Gln-95.	H0635: 1
HTAHZ02	918304	7366	65 - 277	17118		H0635: 1
HTAGB16	870855	7367	249 - 569	17119	His-16 to Trp-25, Asp-55 to Gly-63.	H0635: 1 and L0748: 1.
HTAFC92	790991	7368	113 - 418	17120		AR050: 26, AR051: 23, AR054: 22 H0069: 1

HTAEV23	959129	7369	823 - 329	Leu-7 to Lys-16, Thr-31 to Arg-41, Lys-54 to Asn-61, Ser-89 to His-104, Lys-126 to Lys-131.	AR061: 6, AR089: 4 H0069: 1		
HTAEP05	932459	7370	52 - 228	Arg-41 to Glu-46, Glu-49 to Arg-59.	H0069: 1, L0370: 1, L0776: 1 and L0758: 1.		
HTAEK41	870858	7371	1 - 306	Gly-1 to Arg-7.	H0069: 1	2q37.2	
HTAEF68	753597	7372	1 - 168	Thr-27 to Ser-40.	H0069: 1 and L0439: 1.		
HTADW88	425065	7373	114 - 221		H0069: 1		
HTADW52	537376	7374	63 - 170	Trp-1 to Gly-7.	H0069: 1		
HTADO10	968307	7375	3 - 161		H0069: 1 and L0438: 1.		
HTADB68	753598	7376	3 - 134	Pro-6 to Lys-17.	H0069: 1 and L0748: 1.		
HTACX05	932467	7377	419 - 661	Ser-16 to Gly-22.	H0069: 1 and L0750: 1.		
HTACW82	778852	7378	3 - 134	Ser-1 to Gly-15.	H0069: 1 and L0748: 1.		
HTABK47	720684	7379	161 - 526		L0749: 2, H0069: 1 and L0748: 1.		
HTABE12	971524	7380	98 - 187		H0069: 1 and L0748: 1.		
HTAAO12	972231	7381	64 - 291		H0069: 1 and L0643: 1.		
HTAAB06	960796	7382	110 - 15	Ser-1 to Gly-9, Pro-12 to Gly-25, Pro-27 to Glu-32.	L0518: 4 and H0069: 1.		
HTAAA45	518652	7383	299 - 123	Asn-6 to Ser-11, Pro-28 to Trp-37, Thr-39 to Lys-50.	H0069: 1		
HTAAA31	693527	7384	130 - 2	Phe-19 to Gln-24.	H0069: 1 and L0740: 1.		
HT4AY23	973773	7385	2 - 169	Pro-2 to Cys-18, Phe-22 to Gly-29.	H0141: 1		
HT3TA67	752169	7386	1 - 483	Gln-1 to Ser-9, Ser-43 to Glu-53, Leu-84 to Phe-92, Leu-96 to Ile-101.	L0439: 3 and H0223: 1.		
HT3SH28	508061	7387	1 - 210	Gln-16 to Ser-21, Thr-48 to Lys-56.	H0222: 1		
HT3SA81	589206	7388	3 - 272	Pro-27 to Ser-35, Pro-51 to Trp-58.	H0222: 1	1q21	104770, 107670, 110700, 135940,

HT3SA80	781631	7389	134 - 349	17141	Gly-27 to Ala-33.	H0222: 1	145001, 146790, 152445, 152445, 159001, 174000, 179755, 182860, 182860, 182860, 191315, 230800, 230800, 266200, 600897, 601105, 601412, 601652, 602491
HT3SA71	766391	7390	54 - 326	17142	Gln-20 to Phe-26, Val-73 to Asn-91.	H0222: 1	
HT3SA56	522757	7391	233 - 418	17143	Asn-32 to Lys-43.	H0222: 1	
HT3BK75	766488	7392	1 - 273	17144		H0159: 1 and L0743: 1.	
HT3BF33	527782	7393	80 - 181	17145	Val-27 to Ser-33.	H0159: 1	
HT2TA82	522751	7394	77 - 160	17146		H0221: 1	
HT2TA37	522754	7395	20 - 193	17147	Glu-38 to Ser-44.	H0221: 1	
HT2SA86	524290	7396	101 - 265	17148	Ser-9 to Ser-14, Glu-30 to Ile-36, Tyr-38 to His-43.	H0220: 1	
HT2SA63	518341	7397	37 - 171	17149		H0220: 1	
HT2SA50	522771	7398	180 - 326	17150	Pro-1 to Asn-7, Gly-23 to Ile-28.	L0748: 2 and H0220: 1.	
HT2SA48	508077	7399	52 - 273	17151	Gly-25 to His-31.	H0220: 1	
HT2SA47	578704	7400	110 - 247	17152		H0220: 1	
HT2SA38	840184	7401	21 - 155	17153		H0220: 1	
HT2SA37	695038	7402	2 - 97	17154		H0220: 1	
HT2SA26	522770	7403	403 - 272	17155	Lys-1 to Leu-11.	H0220: 1 and L0439: 1.	
HT2SA13	870917	7404	124 - 336	17156	Glu-1 to Val-11, Leu-34 to Tyr-44.	H0220: 1	
HT1TB40	575355	7405	114 - 251	17157		H0219: 1	
HSYDH60	949156	7406	115 - 282	17158	Pro-20 to Ser-25, Phe-49 to Trp-54.	L0731: 2, H0551: 1, L0747: 1 and L0750: 1.	
HSYCZ04	926955	7407	233 - 376	17159		H0551: 1 and L0745: 1.	
HSYCV01	940661	7408	1 - 522	17160	Thr-11 to Arg-16.	H0551: 1 and L0740: 1.	

Clone ID				SEQ ID	Description		Clone info
HSYCS04	926943	7409	247 - 134	17161			H0551: 1 and L0542: 1.
HSYBZ51	725586	7410	2 - 388	17162			H0551: 1 and L0752: 1.
HSYBX42	713630	7411	1 - 210	17163	Arg-10 to Arg-20, Ala-35 to Gly-54.		H0551: 1 and L0601: 1.
HSYBW55	731627	7412	245 - 532	17164	Ile-1 to Asn-10.		H0551: 1 and L0740: 1.
HSYBK77	772067	7413	59 - 541	17165			H0551: 1, L0740: 1 and L0777: 1.
HSYBH70	756492	7414	89 - 475	17166	Val-1 to Asp-6, Val-10 to Asn-20, Gly-33 to Asn-46, Glu-57 to Ser-62, Ala-69 to Gln-74, Asp-90 to Ser-100.		L0439: 2, H0551: 1 and L0745: 1.
HSYBH16	661807	7415	2 - 571	17167	Pro-10 to Arg-16.		H0551: 1, L0747: 1 and L0777: 1.
HSYAV79	928403	7416	85 - 408	17168			H0551: 1 and L0766: 1.
HSYAU07	953032	7417	1 - 216	17169			H0551: 1, L0779: 1, L0592: 1 and L0608: 1.
HSYAF81	493771	7418	134 - 3	17170	Leu-22 to Ala-28, Lys-33 to Arg-44.		H0551: 1
HSMBD15	659891	7419	2 - 421	17171	Ser-36 to Thr-42.	19q	S0298: 1 and L0740: 1.
HSMBC78	917244	7420	374 - 610	17172			S0298: 1 and L0759: 1.
HSMBA83	780932	7421	9 - 239	17173	Pro-9 to Trp-16, Pro-55 to Leu-61, Asn-70 to Gly-77.		S0298: 1 and L0756: 1.
HSMBA39	715630	7422	166 - 363	17174			L0770: 2, L0749: 2, S0298: 1, L0653: 1, L0776: 1, L0659: 1 and L0789: 1.
HSAZQ69	754362	7423	170 - 298	17175			S0114: 1 and L0754: 1.
HSAZP83	780400	7424	283 - 510	17176	Arg-15 to Ile-23, Thr-33 to Phe-39.		S0114: 1 and L0745: 1.
HSAZP65	747422	7425	15 - 284	17177	Thr-8 to Trp-13.		S0114: 1 and L0754: 1.
HSAZI64	746074	7426	326 - 517	17178	Leu-9 to His-14.		S0114: 1 and L0756: 1.
HSAZI53	727757	7427	239 - 337	17179			L0748: 2 and S0114: 1.
HSAZG52	726195	7428	274 - 396	17180	Ile-16 to Gly-21.		L0754: 2 and S0114: 1.
HSAZG23	950023	7429	120 - 467	17181			AR089: 40, AR061: 7

ID			Range		Mutations	Modifications
HSAZA42	963220	9629	466 - 152	19381	Pro-13 to Asp-20, Thr-27 to Arg-32, Lys-53 to Trp-59, Pro-65 to Gly-70, Gly-77 to Gly-86.	L0523: 2, S0114: 1, L0748: 1 and L0749: 1.
HSAZA39	866817	7430	136 - 324	17182	Ser-16 to Lys-21.	S0114: 1
HSAZA06	705365	7431	131 - 328	17183	Ile-15 to His-21.	S0114: 1 and L0594: 1.
HSAYT37	935451	7432	173 - 364	17184	Gln-9 to Leu-16.	S0114: 1
HSAYT29	708803	7433	170 - 316	17185	His-23 to Arg-29.	S0114: 1 and L0748: 1.
HSAYR63	866821	7434	343 - 585	17186		S0114: 1 and L0530: 1.
HSAYO42	744333	7435	1 - 318	17187		S0114: 1 and L0748: 1.
HSAYK93	713793	7436	169 - 405	17188	Arg-8 to Phe-16, Gln-25 to Gly-31, Gln-37 to Asn-45.	S0114: 1 and L0754: 1.
HSAXS16	791546	7437	215 - 433	17189	Arg-16 to His-25, Arg-47 to Phe-57, Pro-60 to Ser-68.	L0749: 2 and S0114: 1.
HSAXM08	661933	7438	1 - 165	17190	Lys-40 to Ser-45, Cys-49 to Arg-55.	S0114: 1 and L0748: 1.
HSAXJ95	866838	7439	343 - 648	17191	Val-34 to Asp-39, Ser-73 to Ser-87, Lys-93 to Arg-100.	S0114: 1
HSAXJ93	958886	9630	212 - 499	19382		
HSAXI05	721825	7440	135 - 446	17192		S0114: 1 and L0439: 1.
HSAXH85	792516	7441	301 - 453	17193	Glu-6 to Lys-12.	S0114: 1 and L0757: 1.
HSAXG45	932387	7442	151 - 357	17194	Gln-6 to Asn-20, Val-22 to Thr-36.	S0114: 1 and L0756: 1.
HSAXE42	784475	7443	32 - 181	17195		S0114: 1 and L0748: 1.
HSAXE33	457077	7444	67 - 243	17196	Gln-13 to Ser-21.	S0114: 1 and L0756: 1.
HSAXC55	714040	7445	3 - 227	17197		L0742: 2 and S0114: 1.
HSAXB89	702673	7446	131 - 334	17198		S0114: 1 and L0753: 1.
	732368	7447	363 - 202	17199	Lys-24 to Glu-30, Ser-46 to Gln-54.	S0114: 1 and L0600: 1.
	787069	7448	102 - 224	17200	Leu-2 to Asp-12.	S0114: 1 and L0745: 1.

HSAWY92	792888	114 - 389	17201	Leu-2 to Thr-7.	S0114: 1, L0748: 1 and L0749: 1.	
HSAWY81	574184	21 - 239	17202	Tyr-21 to Arg-26, Val-48 to Ala-54.	S0114: 1	
HSAWY79	574182	1 - 204	17203	His-56 to Ser-62.	S0114: 1	
HSAWY33	866861	85 - 222	17204		S0114: 1 and L0592: 1.	
HSAWY07	953851	241 - 381	17205		S0114: 1	
HSAWW74	765818	40 - 120	17206		S0114: 1 and L0439: 1.	
HSAWU12	968804	72 - 368	17207	Ile-1 to Leu-8, Ser-31 to Thr-40, Glu-69 to Pro-80.	S0114: 1 and L0748: 1.	9p22.2
HSAWS74	765819	166 - 345	17208	Asn-44 to Arg-57.	S0114: 1 and L0595: 1.	
HSAWS40	711441	37 - 159	17209		S0114: 1 and L0748: 1.	
HSAWR08	959943	3 - 359	17210	Asn-13 to Lys-20, Val-92 to Arg-98.	L0758: 3 and S0114: 1.	
HSAWO08	959938	176 - 319	17211	Ser-20 to Leu-28.	S0114: 1 and L0717: 1.	
HSAWL77	772444	175 - 285	17212		L0748: 4 and S0114: 1.	
HSAWL68	753569	143 - 292	17213	Gly-5 to Glu-10.	S0114: 1 and L0750: 1.	
HSAWK67	526767	212 - 361	17214		S0114: 1	
HSAWK32	418690	14 - 220	17215		S0114: 1	
HSAWK21	954897	14 - 283	17216	Glu-51 to Asn-61.	S0114: 1	
HSAWK20	866872	134 - 307	17217		S0114: 1	
HSAWI13	971727	273 - 539	17218	Pro-15 to Phe-22, Gly-46 to His-55.	S0114: 1, L0779: 1 and L0591: 1.	
HSAWI11	964949	167 - 322	17219		S0114: 1 and L0754: 1.	
HSAWG44	716820	146 - 346	17220	Leu-3 to Lys-9.	L0753: 2, S0114: 1 and L0521: 1.	
HSAWF86	675220	38 - 253	17221		S0114: 1 and L0748: 1.	
HSAWF52	728598	2 - 328	17222		S0114: 1 and L0745: 1.	
HSAWD34	706928	194 - 349	17223		S0114: 1 and L0740: 1.	
HSAWD24	677435	3 - 236	17224		S0114: 1 and L0748: 1.	
HSAWD15	660572	316 - 447	17225		S0114: 1, L0438: 1 and L0439: 1.	
HSAWC55	866890	102 - 347	17226	Ser-1 to Gln-12.	S0114: 1	
HSAWB70	757409	12 - 170	17227		S0114: 1 and L0748: 1.	

Clone	ID	Range	SEQ ID	Mutations	Libraries	Cytogenic	OMIM
HSAVZ82	881166	115 - 291	17228		S0114: 1 and L0748: 1.		
HSAVZ63	574195	113 - 253	17229	Thr-5 to Thr-10.	S0114: 1		
HSAVY10	968230	36 - 212	17230		S0114: 1 and L0601: 1.		
HSAVY02	920721	81 - 422	17231	Thr-11 to Ser-18, Leu-56 to Glu-70.	S0114: 1, L0527: 1 and L0682: 1.		
HSAVX22	674919	116 - 247	17232		S0114: 1 and L0748: 1.		
HSAVW13	862754	115 - 225	17233		S0114: 1 and L0748: 1.		
HSAVV36	866886	2 - 208	17234		S0114: 1, L0748: 1 and L0361: 1.		
HSAVS48	721856	21 - 131	17235		S0114: 1 and L0746: 1.		
HSAVQ73	929276	501 - 695	17236	Leu-47 to Asp-61.	S0114: 1 and L0604: 1.	11q23.3	176000, 261640, 602574, 602574
HSAVP56	733616	3 - 206	17237		S0114: 1 and L0748: 1.		
HSAVO05	932379	35 - 253	17238	Ser-26 to Cys-33, Gly-53 to Pro-62.	S0114: 1 and L0773: 1.		
HSAVN72	574129	3 - 296	17239		S0114: 1 and L0748: 1.		
HSAVN48	526505	1 - 144	17240		S0114: 1		
HSAVN24	574106	2 - 112	17241	Glu-1 to Trp-16, His-18 to Ser-26.	S0114: 1		
HSAVK84	783183	127 - 246	17242		S0114: 1 and L0748: 1.		
HSAVI84	783182	84 - 233	17243		L0748: 3, S0114: 1, L0740: 1 and L0749: 1.		
HSAVI53	728361	1 - 219	17244	Lys-1 to Leu-25.	L0605: 2 and S0114: 1.		
HSAVG96	796544	86 - 238	17245		S0114: 1 and L0598: 1.		
HSAVF17	664515	221 - 313	17246	Asn-19 to Phe-24.	S0114: 1, L0766: 1, L0665: 1 and L0748: 1.		
HSAVE61	742076	238 - 447	17247	Gly-43 to Ser-57.	S0114: 1 and L0599: 1.		
HSAVA79	781800	1 - 111	17248	Val-2 to Glu-7.	S0114: 1 and L0731: 1.		
HSAVA22	674977	79 - 189	17249	Phe-17 to Gln-23.	S0114: 1, L0521: 1 and L0748: 1.		
HSAUZ11	967609	42 - 338	17250	Arg-13 to Gly-19.	S0114: 1 and L0766: 1.		
HSAUW24	679279	57 - 341	17251	Tyr-46 to Phe-51.	S0114: 1 and L0748: 1.		
HSAUU25	679278	315 - 659	17252	Asn-32 to Pro-40, Ser-49 to Cys-54.	L0748: 3, L0749: 3, L0596: 2 and S0114: 1.		
HSAUQ81	866192	49 - 309	17253		AR051: 41, AR050: 27,		

HSAUQ54	899273	9631	201 - 389	19383		AR054: 22 S0114: 1 and L0766: 1.
HSAUQ44	730928	7502	161 - 373	17254		S0114: 1 and L0748: 1.
HSAUL84	716847	7503	61 - 201	17255	Pro-16 to Phe-22.	S0114: 1 and L0754: 1.
	908440	7504	3 - 302	17256	Ala-23 to Asp-28, Gln-53 to Tyr-60.	AR061: 1, AR089: 1 S0114: 1 and L0686: 1.
HSAUK72	766240	7505	110 - 280	17257	Pro-11 to Ser-17.	S0114: 1 and L0591: 1.
HSAUK48	883205	7506	2 - 238	17258	Pro-5 to Gly-15, Ala-35 to Gln-40.	S0114: 1 and L0750: 1.
HSAUI23	422961	7507	485 - 129	17259		L0789: 2, S0114: 1, L0748: 1 and L0599: 1.
	843427	9632	405 - 608	19384	Leu-3 to Gly-11, Glu-14 to Ala-21.	S0114: 1 and L0599: 1.
HSAUH06	954543	7508	2 - 211	17260		S0114: 1, L0749: 1 and L0589: 1.
HSAUH02	917314	7509	3 - 224	17261		S0114: 1, L0740: 1 and L0747: 1.
HSAUG74	765859	7510	358 - 483	17262		S0114: 1 and L0748: 1.
HSAUD02	920827	7511	37 - 237	17263		S0114: 1
HSAUB69	514840	7512	179 - 406	17264	Gly-15 to Lys-20.	S0114: 1 and L0748: 1.
	567319	9633	50 - 229	19385		L0745: 2 and S0114: 1.
HSAUB39	705677	7513	157 - 357	17265	Lys-23 to Thr-35.	L0779: 4, L0758: 2, S0114: 1 and L0749: 1.
HSATZ81	778268	7514	101 - 268	17266		S0114: 1 and L0748: 1.
HSATY22	674986	7515	3 - 401	17267	Glu-31 to Tyr-43, Pro-94 to Arg-108.	S0114: 1 and L0740: 1.
HSATW91	790394	7516	223 - 333	17268		S0114: 1 and L0748: 1.
HSATW51	725879	7517	284 - 529	17269	Leu-12 to Lys-31.	S0114: 1, L0766: 1 and L0779: 1.
HSATV96	843424	7518	526 - 681	17270		S0114: 1 and L0748: 1.
HSATS25	866949	7519	2 - 184	17271	Lys-36 to Ile-41, Val-56 to Lys-61.	
HSATQ55	732406	7520	57 - 350	17272	Asn-3 to Ser-8, Asn-16 to His-24, Phe-42 to Gly-48, Arg-71 to Lys-81, Gly-88 to Gly-98.	

HSATM64	862436	356 - 640	17273	Gly-1 to Gly-8, Ser-26 to Ala-39, Ser-52 to Arg-58, Ser-63 to Leu-71, Ala-90 to Ser-95.	L0747: 3, L0756: 2, S0114: 1 and L0750: 1.
HSATM19	866954	281 - 448	17274		S0114: 1 and L0748: 1.
HSATM09	456326	42 - 176	17275		S0114: 1 and L0599: 1.
HSATL02	920825	3 - 227	17276	Arg-1 to Asn-8, Glu-10 to Asp-16.	L0518: 3 and S0114: 1.
HSATI58	866955	124 - 429	17277	Pro-51 to Pro-58.	S0114: 1 and L0509: 1.
HSATE53	728414	224 - 448	17278		L0748: 3 and S0114: 1.
HSATC79	602167	269 - 424	17279	Ser-14 to Thr-23.	S0114: 1 and L0600: 1.
HSATC72	761511	219 - 332	17280	Asp-14 to Thr-20.	L0731: 2 and S0114: 1.
HPSAD92	790524	77 - 298	17281		H0074: 1 and L0748: 1.
HPSAB26	429558	142 - 282	17282	Asp-1 to Gly-7, Pro-41 to Gln-47.	H0074: 1
HPSAB24	518747	171 - 341	17283	Pro-5 to Ala-13, Pro-15 to Thr-24.	H0074: 1
HPSAB15	503600	126 - 401	17284		L0748: 2, L0749: 2 and H0074: 1.
HPSAA94	793000	356 - 75	17285		H0074: 1
HPSAA93	867387	2 - 178	17286		H0074: 1
HPSAA91	503543	275 - 6	17287	Ser-31 to Pro-37, Pro-52 to Trp-60, Leu-66 to Leu-71.	H0074: 1
HPSAA75	503544	317 - 138	17288		H0074: 1 and L0748: 1.
HPSAA41	503569	257 - 355	17289	Leu-1 to Asn-11.	H0074: 1
HPSAA30	503567	29 - 253	17290	Val-19 to Met-29.	L0766: 3 and H0074: 1.
HPSAA03	960941	529 - 362	17291		H0074: 1
HNNTA24	911178	189 - 596	17292	Leu-98 to Ala-105, Pro-120 to Gly-127.	AR050: 87, AR054: 77, AR051: 70 H0679: 1
	972489	182 - 589	19386	Leu-98 to Ala-105, Pro-120 to Gly-127.	
HNHPF67	859817	191 - 475	17293		S0216: 1 and L0748: 1.
HNHPD68	974350	13 - 252	17294	Thr-1 to His-12.	S0216: 1

HNHOX01	915303	7543	3 - 176	17295	Glu-12 to Ser-18, Arg-24 to Pro-35, Pro-43 to Arg-49.	S0216: 1		
HNHOV24	974344	7544	138 - 278	17296	Lys-21 to Pro-27, Arg-41 to Thr-47.	L0532: 1 and S0216: 1.		
HNHOQ36	859824	7545	108 - 473	17297	Ala-47 to Gly-52, Pro-87 to Ser-98.	L0493: 2 and S0216: 1.		
HNHOP92	790911	7546	2 - 256	17298	Gly-1 to Ser-7, Glu-9 to Asp-18.	S0216: 1 and L0589: 1.		
HNHOP88	974327	7547	3 - 215	17299	Gln-43 to His-51.	S0216: 1		
HNHOP32	974330	7548	293 - 445	17300		S0216: 1		
HNHOI63	838790	7549	103 - 336	17301	Ser-61 to Pro-72.	L0521: 1 and S0216: 1.		
HNHOI07	952285	7550	167 - 358	17302	Asn-1 to Asn-10, Glu-12 to Val-20, Trp-29 to Gly-39, Ser-53 to Thr-60.	S0216: 1 and L0592: 1.		
HNHOF94	948720	7551	2 - 508	17303	Pro-94 to Ser-102.	AR051: 25, AR050: 24, AR054: 20, AR089: 17, AR061: 9, S0216: 1		
HNHNT20	773683	7552	133 - 279	17304		S0216: 1 and L0599: 1.	6p24	134570
HNHNQ08	958377	7553	148 - 429	17305		S0216: 1 and L0748: 1.		
HNHNP81	928378	7554	143 - 514	17306	Ile-1 to Ser-16.	AR051: 23, AR054: 11, AR050: 9, AR061: 8, AR089: 5, S0216: 1		
HNHNP66	918684	7555	3 - 326	17307		S0216: 1		
HNHNO01	915358	7556	200 - 367	17308		S0216: 1 and L0749: 1.		
HNHNM39	950971	7557	249 - 88	17309	Val-2 to Thr-12.	S0216: 1 and L0750: 1.		
HNHNK02	918715	7558	225 - 512	17310	Leu-33 to Ser-40.	L0370: 1 and S0216: 1.		
HNHNJ24	859836	7559	146 - 403	17311		L0775: 1, S0216: 1, L0438: 1 and L0752: 1.		
HNHNI09	800482	7560	223 - 483	17312	Ser-28 to Arg-33.	S0216: 1		
HNHNH51	974343	7561	1 - 255	17313		S0216: 1		
HNHND85	870121	7562	71 - 529	17314	Pro-21 to Ser-26, His-29 to Arg-35,	L0753: 2 and S0216: 1.		

HNHND81	974334	7563	17315	2 - 229	Pro-41 to Leu-50, Thr-87 to Arg-99.	S0216: 1
HNHND07	952273	7564	17316	186 - 320	Thr-24 to Ser-29, Pro-31 to Thr-40, Leu-44 to Val-61.	S0216: 1 and L0748: 1.
HNHNB92	790945	7565	17317	34 - 342		S0216: 1 and L0777: 1.
HNHNB85	783887	7566	17318	149 - 322	Pro-47 to Gly-55.	S0216: 1 and L0745: 1.
HNHNB02	918709	7567	17319	124 - 234		S0216: 1 and L0748: 1.
HNHMZ49	859842	7568	17320	220 - 426		S0216: 1 and L0589: 1.
HNHMY52	975207	7569	17321	2 - 190	Asn-7 to Ile-25, Ala-29 to His-41.	S0216: 1
HNHMS26	975206	7570	17322	155 - 286	Ile-33 to Ser-41.	S0216: 1
HNHMQ86	784986	7571	17323	2 - 151	Pro-1 to Thr-7, Pro-26 to Tyr-31.	S0216: 1 and L0731: 1.
HNHMQ28	859847	7572	17324	6 - 131		S0216: 1 and L0748: 1.
HNHMF02	918649	7573	17325	2 - 169	Phe-1 to Phe-7, Lys-23 to Lys-30.	S0216: 1 and L0758: 1.
HNHLY58	859849	7574	17326	571 - 323		L0365: 1 and S0216: 1.
HNHLW34	859850	7575	17327	353 - 66	Glu-9 to Lys-19.	S0216: 1 and L0438: 1.
HNHLW10	963542	7576	17328	16 - 213	Lys-8 to Cys-14.	S0216: 1 and L0361: 1.
HNHLR36	859851	7577	17329	402 - 587		L0520: 1 and S0216: 1.
HNHLQ07	952279	7578	17330	387 - 566		L0749: 3 and S0216: 1.
HNHLG36	855071	7579	17331	335 - 556		L0659: 1, L0663: 1, S0216: 1 and L0601: 1.
HNHLD70	756668	7580	17332	3 - 221	Ser-10 to Thr-21, Pro-23 to Asn-34, Leu-42 to Thr-51.	S0216: 1 and L0592: 1.
HNHLC01	915363	7581	17333	277 - 519		L0385: 1 and S0216: 1.
HNHLB03	923091	7582	17334	2 - 256	Ala-17 to Cys-32, Gln-38 to Lys-47, Ser-58 to Ala-64, Arg-66 to Trp-72.	L0741: 4 and S0216: 1.
HNHKT86	785104	7583	17335	379 - 44		L0439: 2 and S0216: 1.
HNHKQ50	723868	7584	17336	84 - 434		L0748: 2, L0766: 1, S0216: 1 and L0779: 1.

HNHKP03	923276	7585	350 - 679	Pro-20 to His-29.	L0758: 3 and S0216: 1.
HNHKI61	859925	7586	335 - 505		L0766: 1, S0216: 1 and L0740: 1.
HNHIS54	730706	7587	189 - 1		S0053: 1 and L0439: 1.
HNHIR83	781195	7588	36 - 284		S0053: 1 and L0439: 1.
HNHIC85	784345	7589	137 - 442	Asp-1 to Pro-11, Gly-27 to Cys-34.	S0053: 1, L0748: 1 and L0749: 1.
HNHHL58	736064	7590	136 - 501	Ile-2 to Arg-8, Phe-21 to Gln-30.	S0053: 1 and L0596: 1.
HNHHG53	830068	7591	172 - 336		S0053: 1 and L0591: 1.
HNHHF86	784698	7592	168 - 383		S0053: 1
HNHHF61	741836	7593	86 - 316		S0053: 1
HNHHF52	726576	7594	101 - 292	Thr-35 to Pro-40.	S0053: 1
HNHHF39	705407	7595	149 - 346	Glu-16 to Pro-21, Pro-30 to Pro-36, Arg-47 to Ser-58, Leu-60 to Lys-65.	S0053: 1
HNHHF38	709278	7596	41 - 184	Ile-38 to Pro-47.	S0053: 1
HNHHF37	708714	7597	2 - 229		S0053: 1
HNHHF28	694365	7598	3 - 227	Glu-5 to Pro-14.	S0053: 1 and L0600: 1.
HNHHF13	657245	7599	138 - 55	Pro-1 to Lys-12, Lys-18 to Leu-24.	S0053: 1
HNHHF03	924221	7600	101 - 193	Ser-10 to Val-16.	S0053: 1
HNHHC61	741839	7601	89 - 196	Pro-1 to Gln-8.	L0758: 2, S0053: 1 and L0602: 1.
HNHGX61	948731	7602	136 - 291	Pro-26 to Lys-34, Pro-47 to Gln-52.	S0053: 1 and L0589: 1.
HNHGV62	743400	7603	1 - 228	Ser-61 to Pro-70.	S0053: 1
HNHGU56	859953	7604	117 - 440		L0369: 1 and S0053: 1.
HNHGT92	496480	7605	12 - 164		S0053: 1
HNHGT84	781977	7606	110 - 307		S0053: 1
HNHGT80	775409	7607	45 - 260	Glu-8 to Lys-14, Arg-20 to Gln-25.	S0053: 1
HNHGT15	660304	7608	144 - 311	Ser-13 to Gln-27.	L0589: 2 and S0053: 1.
HNHGT09	625615	7609	1 - 243	Thr-2 to Asp-10,	S0053: 1

HNHGS24	677228	7610	350 - 748	17362	Asp-16 to Ile-21, Ile-25 to Lys-36.	L0749: 3, L0748: 2 and S0053: 1.		
HNHGO45	582523	7611	547 - 879	17363	Cys-51 to Ser-57, Arg-68 to His-77, Asn-93 to His-102.	L0748: 2 and S0053: 1.	11p15.5-p15.4	125852, 126452, 126452, 130650, 141900, 141900, 141900, 141900, 141900, 141900, 142000, 142000, 142200, 142250, 142270, 150000, 176730, 176730, 176730, 190020, 191290, 192500, 192500, 194071, 194071, 204500, 257200, 257200, 600856, 601680, 602631, 602631
HNHGN27	859972	7612	3 - 314	17364	Glu-5 to Ser-14, Pro-22 to Cys-27.	L0758: 2 and S0053: 1.		
HNHGI60	740396	7613	159 - 488	17365		L0745: 4 and S0053: 1.		
HNHGI03	923829	7614	1 - 309	17366	Glu-92 to Lys-103.	S0053: 1		
HNHGH83	781208	7615	2 - 241	17367	Ala-8 to Leu-13, Lys-26 to Val-32.	S0053: 1 and L0592: 1.		
HNHGH22	859983	7616	3 - 251	17368	His-1 to Thr-7, Glu-28 to Asn-37.	S0053: 1 and L0748: 1.		
HNHGG39	561093	7617	117 - 329	17369		AR051: 10, AR050: 10, AR054: 9 S0053: 1 and L0361: 1.		
HNHGF28	686735	7618	18 - 443	17370	Pro-5 to Gly-12.	S0053: 1 and L0740: 1.		
HNHGE91	790212	7619	3 - 242	17371	Glu-18 to Ser-29, Val-31 to Arg-41, Gly-47 to Phe-54.	S0053: 1		
HNHGE81	777955	7620	44 - 295	17372	Lys-29 to Trp-40.	S0053: 1		

HNHGE79	775214	7621	107 - 286	17373	Glu-29 to Asp-35.	S0053: 1
HNHGE68	753052	7622	1 - 174	17374	Gly-1 to Ser-7, Thr-12 to Lys-19.	S0053: 1
HNHGE44	683294	7623	1 - 339	17375	Thr-50 to Glu-59.	L0589: 3 and S0053: 1.
HNHGE31	698046	7624	59 - 169	17376		S0053: 1
HNHGE24	677234	7625	50 - 154	17377	Pro-16 to Tyr-24.	S0053: 1
HNHGE12	970722	7626	1 - 396	17378	Gly-1 to Arg-17, Ser-24 to Cys-33, Thr-78 to Arg-88.	S0053: 1
HNHGD08	959494	7627	1 - 249	17379	Ala-24 to Glu-30.	S0053: 1 and L0603: 1.
HNHGC92	792740	7628	109 - 285	17380	Asn-22 to Lys-31.	S0053: 1
HNHGC91	790199	7629	103 - 225	17381	Ser-1 to Gln-9, Pro-15 to Thr-27, His-29 to Tyr-39.	S0053: 1
HNHGC45	720747	7630	3 - 359	17382	Cys-20 to Ile-27, Thr-45 to Gly-51, Gly-93 to Gly-101.	L0617: 1, L0157: 1 and S0053: 1.
HNHGC32	699286	7631	1 - 192	17383	Lys-36 to Tyr-41.	S0053: 1
HNHGC21	670949	7632	58 - 423	17384	Gln-80 to Leu-87.	S0053: 1
HNHGC20	859991	7633	14 - 247	17385	Arg-5 to Glu-10.	S0053: 1
HNHGC19	668692	7634	2 - 250	17386		S0053: 1
HNHGC08	962224	7635	53 - 271	17387	Gln-11 to Asp-19.	S0053: 1
HNHGC07	953414	7636	44 - 328	17388	Ser-14 to Leu-20, Arg-62 to Gly-68.	S0053: 1
HNHGB12	970726	7637	377 - 676	17389		L0761: 1, S0053: 1 and L0758: 1.
HNHGA53	973803	7638	111 - 260	17390		S0053: 1
HNHFY68	752305	7639	3 - 188	17391	Asp-19 to Glu-28, Ser-38 to Arg-44, Gly-51 to Lys-62.	S0053: 1 and L0592: 1.
HNHFY08	959475	7640	287 - 448	17392		L0365: 1 and S0053: 1.
HNHFX10	961275	7641	55 - 222	17393	Gln-20 to Glu-26, Ser-32 to Glu-47.	S0053: 1
HNHFX08	959484	7642	33 - 218	17394	Ala-9 to Asn-17.	S0053: 1 and L0592: 1.
HNHFX07	953403	7643	111 - 314	17395	Tyr-17 to His-22.	S0053: 1 and L0779: 1.

Clone ID				SEQ	Description	Notes
HNHFV49	975415	7644	520 - 768	17396		AR061: 12, AR089: 5 S0053: 1
HNHFV30	566339	7645	2 - 151	17397	Pro-23 to Trp-32.	AR051: 103, AR050: 100, AR054: 83 S0053: 1
HNHFU64	937179	7646	264 - 467	17398	Pro-37 to Ala-47.	AR051: 11, AR061: 3, AR089: 2, AR050: 2, AR054: 1 S0053: 1
HNHFU56	733513	7647	155 - 352	17399	Gln-6 to Ser-15, Pro-17 to Ala-29.	S0053: 1 and L0748: 1.
HNHFU12	970882	7648	220 - 387	17400		S0053: 1 and L0608: 1.
HNHFR69	757646	7649	256 - 429	17401		S0053: 1 and L0589: 1.
HNHFP94	888666	7650	3 - 287	17402	Lys-47 to Pro-54.	AR051: 88, AR050: 84, AR054: 67 S0053: 1
HNHFP89	786967	7651	129 - 284	17403		S0053: 1 and L0745: 1.
HNHFP03	924606	7652	1 - 204	17404	Pro-23 to Gly-29.	L0766: 1 and S0053: 1.
HNHFM74	506283	7653	1 - 270	17405	Gly-12 to Trp-17.	S0053: 1
HNHFM54	486847	7654	341 - 514	17406	Lys-1 to Asp-9, Lys-15 to Glu-21, Glu-29 to Gly-34.	S0053: 1
	490923	9635	631 - 329	19387		
HNHFL96	576414	7655	160 - 495	17407	Ser-1 to Lys-10, Gly-16 to Gly-27.	S0053: 1
HNHFL28	973273	7656	347 - 469	17408	Ser-30 to Gly-38.	S0053: 1
HNHFH24	903741	7657	28 - 480	17409	His-8 to Gly-18, Ala-39 to Gly-45, Pro-94 to Glu-101.	AR054: 20, AR050: 15, AR061: 7, AR089: 4, AR051: 1 S0053: 1
HNHFH23	675942	7658	75 - 734	17410	Val-24 to Glu-29, Ser-62 to Ser-68, Ala-75 to Ser-81, Lys-138 to Phe-145.	L0740: 2 and S0053: 1.
HNHFF79	638126	7659	153 - 281	17411		AR051: 21, AR050: 8 S0053: 1

HNHFF30	692811	7660	2 - 178	17412	Asn-37 to Cys-43, Gly-50 to Phe-57.	S0053: 1 and L0748: 1.
HNHFE01	916782	7661	186 - 308	17413		L0758: 2 and S0053: 1.
HNHFD68	576448	7662	1 - 147	17414	Pro-19 to Gly-32.	AR050: 7, AR054: 6, AR051: 3, S0053: 1
HNHFB21	842707	7663	9 - 125	17415	Arg-10 to Thr-20.	S0053: 1
HNHEW83	781217	7664	256 - 498	17416	Lys-2 to Thr-8, Ser-12 to Trp-25, Trp-33 to Cys-39.	L0748: 2 and S0053: 1.
HNHEW18	666524	7665	54 - 197	17417		S0053: 1, L0438: 1 and L0748: 1.
HNHEU20	668909	7666	72 - 275	17418		S0053: 1 and L0740: 1.
HNHEQ03	535701	7667	68 - 277	17419	Gly-34 to Ser-41.	S0053: 1
	535815	9636	68 - 277	19388	Gly-34 to Ser-41.	
	923484	9637	74 - 283	19389	Gly-34 to Ser-41.	
HNHEP86	490390	7668	505 - 278	17420	Glu-1 to Ser-9, Lys-14 to Leu-20, Asp-44 to Gly-57.	S0053: 1
	785285	9638	71 - 364	19390	Gln-1 to Ala-13, Pro-52 to Gly-57, Leu-84 to Gln-90, Pro-92 to Asp-98.	
HNHEL72	760706	7669	18 - 164	17421	Arg-11 to Asn-20.	S0053: 1 and L0589: 1.
HNHEL34	706636	7670	248 - 553	17422	Gln-12 to Met-20, Pro-26 to Gly-31, Phe-39 to Asn-44, Glu-50 to Thr-64.	L0439: 2, S0053: 1 and L0751: 1.
HNHEL27	506284	7671	114 - 380	17423	Arg-11 to Asn-20.	S0053: 1
HNHEK69	757649	7672	244 - 402	17424		S0053: 1 and L0439: 1.
HNHEJ78	800165	7673	20 - 154	17425		S0053: 1
HNHEJ20	669763	7674	305 - 472	17426	Ser-1 to Trp-15.	S0053: 1 and L0439: 1.
HNHEJ90	888553	7675	22 - 168	17427	Arg-25 to Gln-34.	AR054: 16, AR050: 12, AR051: 8, S0053: 1
HNHEJ37	419752	7676	35 - 205	17428	Pro-46 to Met-51.	L0766: 1 and S0053: 1.

HNHEH28	973296	22 - 198	17429	Arg-5 to His-11, Thr-13 to Cys-22, Cys-50 to Thr-55.	L0617: 1 and S0053: 1.
HNHEG71	760464	23 - 190	17430	Leu-7 to Asp-17, Gly-19 to His-27, Pro-33 to Glu-49.	S0053: 1
HNHEF53	576417	201 - 362	17431	Met-18 to Cys-23.	S0053: 1
HNHEF08	958854	493 - 230	17432		S0053: 1
	958883	70 - 339	19391 9639	Ser-46 to Ser-51.	
HNHEE03	924619	351 - 485	17433		S0053: 1 and L0759: 1.
HNHED88	576529	3 - 206	17434		AR051: 22, AR054: 15, AR050: 11 S0053: 1
HNHED18	666594	450 - 599	17435	Ser-17 to Asp-23, Ile-32 to Arg-38.	L0749: 2, S0053: 1 and L0748: 1.
HNHDZ25	973295	109 - 330	17436	Thr-50 to Gly-55.	S0053: 1
HNHDY14	542062	151 - 396	17437		AR054: 14, AR051: 1, AR050: 1 S0053: 1 and L0759: 1.
	753132	156 - 380	19392 9640		
HNHDX57	734933	1 - 219	17438		S0053: 1 and L0752: 1.
HNHDX30	692875	302 - 454	17439		S0053: 1 and L0748: 1.
HNHDW94	883870	257 - 568	17440	Lys-8 to Pro-17, Leu-92 to Ala-99.	L0509: 1 and S0053: 1.
HNHDW16	422903	246 - 1	17441		L0589: 2 and S0053: 1.
	661809	91 - 339	19393 9641	Arg-1 to Ser-17, Arg-35 to Ser-40, Gly-64 to Leu-74.	
HNHDV95	559341	67 - 288	17442	Ala-19 to Leu-25.	AR054: 15, AR050: 3 S0053: 1
	860083	58 - 279	19394 9642	Ala-19 to Leu-25.	
HNHDV93	792467	2 - 349	17443		L0748: 4 and S0053: 1.
HNHDV16	863116	185 - 3	17444	Thr-30 to Thr-51.	AR051: 28, AR050: 23, AR054: 20 S0053: 1
HNHDT83	974277	55 - 198	17445		S0053: 1

HNHDT33	576483	7694	2 - 166	17446		S0053: 1		
HNHDT32	573332	7695	3 - 122	17447	Ser-12 to Lys-24, Lys-29 to Arg-35.	S0053: 1		
HNHDT19	573355	7696	2 - 130	17448	Ser-20 to Pro-26.	S0053: 1		
HNHDT12	576464	7697	3 - 92	17449		S0053: 1		
HNHDQ05	932223	7698	2 - 382	17450	Gly-14 to Arg-26, Thr-43 to Arg-58, Pro-63 to Gly-71, Lys-86 to Gly-95.	S0005: 2, S0053: 1 and L0589: 1.		
HNHDM15	660509	7699	215 - 427	17451	Thr-40 to Ser-46, Pro-48 to Pro-58, Ser-65 to Glu-70.	L0747: 2 and S0053: 1.		
HNHDH40	574312	7700	74 - 319	17452		S0053: 1		
HNHDH03	924895	7701	68 - 334	17453	Gln-1 to Leu-12, Ser-16 to His-21.	S0053: 1		
HNHDF07	953883	7702	92 - 379	17454		S0053: 1 and L0361: 1.		
HNHDD52	520297	7703	241 - 71	17455	Pro-49 to Lys-57.	AR050: 2, AR051: 0 S0053: 1		
HNHDC29	904546	7704	24 - 215	17456	Gly-1 to Gly-15, Gly-18 to His-26, Pro-43 to Gly-62.	S0053: 1	17q21	109270, 109270, 109270, 109270, 109270, 113705, 113705, 144200, 148065, 148066, 148066, 148067, 148067, 148069, 148080, 154275, 168610, 171190, 176705, 185800, 200350, 221820, 232200, 249000, 252920, 253250, 600119, 600119, 601363, 601844
HNHDB69	757760	7705	207 - 416	17457		S0053: 1 and L0756: 1.		
HNHCZ84	782897	7706	317 - 105	17458		S0053: 1		
	782898	9643	99 - 290	19395	Val-36 to Gly-43.			

ID						
HNHCY96	782939	9644	453 - 265	19396	Thr-5 to Glu-11, Lys-28 to Arg-36.	S0053: 1
HNHCY07	796547	7707	428 - 697	17459	Thr-72 to Pro-77, Pro-82 to Phe-87.	S0053: 1 and L0780: 1.
	953878	7708	49 - 339	17460	Pro-1 to Val-7, Asp-19 to Tyr-25, Lys-39 to Phe-46.	
HNHCY06	936061	7709	40 - 150	17461		S0053: 1 and L0759: 1.
HNHCU08	959944	7710	154 - 294	17462		S0053: 1 and L0599: 1.
HNHCO94	796745	7711	145 - 267	17463		S0053: 1 and L0600: 1.
HNHCO69	754189	7712	12 - 362	17464		S0053: 1 and L0777: 1.
HNHCO39	705641	7713	55 - 294	17465	Arg-18 to Val-23.	S0053: 1 and L0592: 1.
HNHCM69	757751	7714	196 - 366	17466	Cys-8 to Cys-16.	S0053: 1 and L0748: 1.
HNHCJ11	964952	7715	89 - 211	17467	Leu-9 to Trp-14.	S0053: 1
HNHCI32	861673	7716	183 - 593	17468	Lys-17 to Thr-23, His-95 to Thr-101.	AR051: 23, AR050: 14, AR061: 10, AR054: 4, AR089: 3 S0053: 1
	956105	9645	963 - 553	19397	Lys-17 to Thr-23, His-95 to Thr-101.	
HNHCG43	574074	7717	10 - 168	17469	Thr-31 to Gly-37.	S0053: 1
HNHCG32	574080	7718	90 - 161	17470	Ser-6 to Lys-14.	S0053: 1
HNHCD33	702679	7719	488 - 655	17471		L0748: 6 and S0053: 1.
HNHCA27	668255	7720	268 - 465	17472		AR054: 16, AR051: 16, AR050: 3 S0053: 1
HNHBZ39	860113	7721	114 - 284	17473		AR054: 19, AR050: 18, AR051: 13 S0053: 1
HNHBX96	796539	7722	61 - 252	17474	Thr-8 to Phe-18, Ser-23 to Asn-34, Ala-37 to Leu-46.	S0053: 1 and L0748: 1.
HNHBW54	583752	7723	186 - 299	17475		S0053: 1
	840101	9646	235 - 2	19398	Arg-1 to Ala-9, Phe-18 to Asp-27.	
HNHBU02	920662	7724	74 - 280	17476		S0053: 1 and L0589: 1.

Clone	Accession	No.	Range	Description	Codes
HNHBO78	574093	7725	2 - 160		S0053: 1
HNHBK57	490789	7726	296 - 60		S0053: 1
HNHBI48	513489	9647	2 - 211		
	860125	7727	243 - 533		S0053: 1
HNHBI02	918387	7728	686 - 474		S0053: 1
	919069	9648	314 - 3	His-34 to Ser-44, Cys-80 to Glu-86, Pro-95 to Gly-101.	
HNHBG42	714044	7729	241 - 351	Arg-21 to Gln-30.	S0053: 1, L0740: 1 and L0777: 1.
HNHBF78	773747	7730	76 - 300		S0053: 1 and L0589: 1.
HNHBF47	949027	7731	923 - 501	His-1 to Thr-14.	AR051: 11, AR054: 8, AR050: 7, AR061: 1, AR089: 0, S0053: 1
HNHBE75	766526	7732	82 - 243	Cys-3 to Leu-20.	L0439: 2 and S0053: 1.
HNHBD73	764293	7733	259 - 134	His-1 to Tyr-7, Ser-17 to Gly-24.	S0053: 1
HNHBC77	772452	7734	67 - 273		S0053: 1 and L0750: 1.
HNHAP69	574295	7735	58 - 270	Asn-2 to Arg-9.	S0053: 1
HNHAP55	574386	7736	2 - 163	Ala-1 to His-11.	S0053: 1
HNHAP32	574393	7737	99 - 281		S0053: 1
HNHAP08	959961	7738	132 - 239		S0053: 1
HNHAM81	574402	7739	1 - 90		S0053: 1
HNHAM80	574404	7740	56 - 160	Asn-20 to Gln-30.	S0053: 1
HNHAM33	571334	7741	3 - 95	Thr-1 to Lys-6, Leu-22 to Leu-30.	L0633: 3 and S0053: 1.
HNHAK41	890594	7742	2 - 166		AR050: 14, AR051: 12, AR054: 2 S0053: 1
HNHAI41	712605	7743	66 - 233		L0745: 3 and S0053: 1.
HNHAI07	954088	7744	1 - 168	Arg-1 to Asp-16, Leu-27 to Gly-32.	L0761: 1 and S0053: 1.
HNHAF61	742116	7745	189 - 686	Pro-5 to Trp-10, Glu-62 to Gly-67, Ala-124 to Asn-129.	AR061: 6, AR089: 3 L0438: 2, L0439: 2, L0752: 2, L0365: 1 and S0053: 1.

HNHAE19	955094	9649	378 - 1	19401	Thr-56 to Pro-64, Pro-77 to Thr-87, Thr-95 to Glu-100, Asp-112 to Thr-118.	L0766: 5, L0788: 1, S0053: 1 and L0747: 1.
HNHAB36	527975	7746	429 - 112	17498	Arg-24 to Lys-37, Ser-59 to Pro-70.	S0053: 1
	596822	7747	913 - 653	17499	Arg-19 to Arg-26, Gly-44 to Thr-55, Glu-68 to His-75, Trp-82 to Asp-87.	
	946565	9650	199 - 2	19402		
	946634	9651	3 - 170	19403	Thr-6 to Cys-17, Gly-23 to Gly-28.	
HNHAB15	973675	7748	420 - 623	17500	Cys-1 to Ser-6.	S0053: 1
HNGPR43	860142	7749	2 - 304	17501		S0428: 1 and L0600: 1.
HNGPP74	974046	7750	303 - 557	17502	Gln-1 to Ser-6, Asp-30 to Lys-35.	S0428: 1
HNGPN54	947104	7751	478 - 113	17503	Pro-16 to Ala-31, Pro-59 to Gly-85, Pro-87 to Pro-96.	AR061: 4, AR089: 1 S0428: 1
HNGPM65	972821	7752	64 - 270	17504	Arg-1 to Lys-6, Ile-14 to Asn-22.	S0428: 1
HNGPL75	950134	7753	870 - 559	17505		AR061: 7, AR089: 3 L0766: 1, S0428: 1 and L0592: 1.
HNGPL05	974049	7754	43 - 270	17506		S0428: 1
HNGPI87	860162	7755	229 - 426	17507		S0428: 1 and L0589: 1.
HNGPH83	974045	7756	1 - 147	17508	Tyr-4 to Ile-16.	S0428: 1
HNGOZ40	969158	7757	13 - 330	17509	Gln-5 to Phe-15, Pro-32 to Ala-39, Pro-49 to Trp-67.	S0428: 1 and L0588: 1.
HNGOY68	860169	7758	2 - 343	17510	Gly-21 to Leu-30, Pro-51 to Ser-56, Thr-62 to Ala-67.	L0761: 1 and S0428: 1.
HNGOY32	954991	7759	243 - 590	17511		L0365: 1 and S0428: 1.
HNGOP63	973415	7760	126 - 557	17512	Pro-22 to Leu-30.	S0428: 1

HNGOP40	860182	7761	102 - 326	17513	Ser-7 to Ala-14, Arg-25 to His-31, Pro-48 to Gly-62, Gln-68 to Lys-75.	S0428: 1 and L0589: 1.
HNGOO88	860179	7762	95 - 271	17514	Glu-1 to Leu-11.	S0428: 1 and L0748: 1.
HNGON56	974038	7763	520 - 738	17515		S0428: 1
HNGON24	860183	7764	205 - 468	17516		L0369: 1 and S0428: 1.
HNGOK04	972752	7765	3 - 611	17517	Thr-6 to Ser-13, Leu-52 to Gly-61, Arg-66 to Arg-72, Arg-131 to Pro-136, Arg-145 to Tyr-150, Gly-163 to Ser-168, Ala-186 to Gly-193.	S0428: 1
HNGOF70	860195	7766	7 - 243	17518		L0766: 2 and S0428: 1.
HNGNY72	860198	7767	167 - 385	17519	Met-20 to Gly-26.	L0385: 1 and S0428: 1.
HNGNY16	806017	7768	312 - 590	17520	Pro-35 to Trp-43.	S0428: 1 and L0756: 1.
HNGNY02	918626	7769	42 - 470	17521	Gly-1 to Gly-9, Gly-40 to Asn-53, Arg-67 to Gln-72, His-100 to Trp-107, Arg-135 to Pro-140.	L0385: 1, L0365: 1 and S0428: 1.
HNGNX66	974035	7770	391 - 618	17522	Gly-1 to Val-30, Lys-37 to Glu-53.	S0428: 1
HNGNU85	974037	7771	262 - 594	17523	Arg-27 to Ser-32.	S0428: 1
HNGNS91	973432	7772	245 - 496	17524	Lys-30 to Asp-37.	S0428: 1
HNGNN81	974124	7773	96 - 287	17525	Leu-3 to Gly-13, Ala-17 to Pro-26, Glu-44 to Lys-49.	S0428: 1
HNGNN01	915226	7774	282 - 512	17526		S0428: 1 and L0758: 1.
HNGNJ46	860212	7775	135 - 470	17527	Leu-12 to Cys-19, Gln-27 to Asn-35.	L0779: 2, L0663: 1, S0428: 1 and L0747: 1.
HNGNI78	860216	7776	186 - 380	17528	Pro-38 to Trp-44.	S0428: 1 and L0596: 1.
HNGND75	974968	7777	169 - 450	17529	Pro-3 to Gln-13, Gly-39 to Cys-44, Thr-57 to Trp-66,	S0428: 1

					Thr-81 to Ser-87.	
HNGND01	915294	7778	446 - 580	17530		S0428: 1 and L0749: 1.
HNGNA49	974907	7779	371 - 592	17531		S0428: 1
HNGMY91	974056	7780	282 - 575	17532	Val-23 to Gly-29, Ser-48 to Cys-58.	S0428: 1
HNGMW65	950173	7781	295 - 26	17533	Ile-26 to Thr-37.	AR089: 119, AR061: 16 S0428: 1
HNGMT40	930430	7782	2 - 151	17534		L0662: 1, S0428: 1 and L0759: 1.
HNGMM11	966099	7783	40 - 375	17535	Pro-1 to Leu-13, Pro-19 to Pro-27.	S0428: 1 and L0777: 1.
HNGML12	934389	7784	3 - 179	17536		L0761: 1, L0766: 1, S0428: 1 and L0756: 1.
HNGMF02	955660	7785	394 - 642	17537		L0809: 2, L0783: 1, L0791: 1, S0428: 1, L0740: 1 and L0752: 1.
HNGME04	927020	7786	200 - 592	17538		S0428: 1, L0748: 1 and L0749: 1.
HNGMD92	790887	7787	71 - 247	17539	Arg-39 to Asp-56.	S0428: 1 and L0361: 1.
HNGMD48	974358	7788	215 - 400	17540		S0428: 1
HNGMC01	915310	7789	525 - 830	17541	Gln-50 to Ser-61.	L0747: 3 and S0428: 1.
HNGLY12	968919	7790	260 - 439	17542	Thr-8 to Leu-13, Glu-22 to Asn-32.	S0428: 1 and L0758: 1.
HNGLY08	948825	7791	81 - 425	17543	Asn-80 to Ser-86, Phe-98 to Glu-105.	AR051: 17, AR050: 9, AR054: 7 S0428: 1
HNGLS90	787446	7792	253 - 438	17544	Ala-26 to Ala-31, Ser-57 to Arg-62.	S0428: 1, L0748: 1 and L0749: 1.
HNGLR54	972812	7793	314 - 508	17545	Pro-20 to Gln-25, Glu-55 to Ala-60.	S0428: 1
HNGLO21	974067	7794	165 - 479	17546	Pro-22 to Thr-28, Arg-35 to Pro-44.	S0428: 1
HNGLL07	952236	7795	3 - 146	17547		S0428: 1 and L0731: 1.
HNGLK36	974584	7796	402 - 557	17548	Gln-7 to Asp-21, Glu-27 to Gly-37.	S0428: 1
HNGKY10	963459	7797	58 - 156	17549		L0659: 1 and S0428: 1.

HNGKS34	974368	189 - 356	17550	Glu-36 to Pro-42.	S0428: 1
HNGKQ80	860306	90 - 377	17551	Val-20 to Glu-27.	S0428: 1 and L0589: 1.
HNGKO32	860307	118 - 414	17552	Pro-4 to Ala-9, Val-18 to Trp-30, His-48 to Leu-59, Phe-91 to Asn-99.	S0428: 1, L0748: 1 and L0749: 1.
HNGKM74	942758	2 - 988	17553	Phe-148 to Lys-155, Arg-162 to Glu-168, Arg-205 to Thr-213, Pro-235 to Leu-241.	AR051: 17, AR050: 17, AR061: 7, AR089: 3, AR054: 3 L0800: 1 and S0428: 1.
HNGKL24	974360	319 - 540	17554		S0428: 1
HNGKJ02	918622	375 - 647	17555	Gly-23 to Pro-28, Pro-31 to Asp-36, Ala-38 to Trp-59, His-71 to Gln-76, Lys-79 to Glu-86.	S0428: 1 and L0731: 1.
HNGKH07	952210	104 - 247	17556	Pro-2 to Thr-9.	L0655: 1 and S0428: 1.
HNGKG03	922036	120 - 323	17557		L0518: 1 and S0428: 1.
HNGKD49	974364	295 - 444	17558		S0428: 1
HNGKC69	834922	137 - 418	17559	Lys-29 to Thr-40, Arg-58 to Leu-65, Gln-67 to Arg-80, Ser-85 to Asp-92.	AR051: 14, AR054: 4, AR050: 1 S0428: 1
HNGKC21	974581	102 - 233	17560		S0428: 1
HNGKC06	934309	3 - 431	17561	Ser-21 to Lys-29, Gln-31 to His-37.	S0428: 1 and L0758: 1.
HNGKA11	966117	118 - 300	17562		L0787: 1, S0428: 1 and L0592: 1.
HNGJV82	778921	305 - 439	17563	Gly-14 to Arg-21, Gln-31 to Gln-37.	S0052: 1 and L0592: 1.
HNGJR05	860357	212 - 460	17564	Ser-16 to Asp-27, Arg-37 to Gly-44.	S0052: 1 and L0589: 1.
HNGJQ96	796414	37 - 282	17565	Thr-24 to Thr-29, Thr-42 to Lys-47, Ala-52 to Asn-64.	S0052: 1
HNGJQ36	708121	45 - 242	17566	Pro-46 to Gly-53.	S0052: 1

HNGIQ08	959511	7815	26 - 103	17567	S0052: 1
HNGIL47	720363	7816	3 - 404	17568	Arg-31 to Ser-37, Pro-39 to Pro-45. — L0771: 8, L0591: 2, L0788: 1 and S0052: 1.
HNGJK64	746615	7817	22 - 147	17569	Ser-19 to Leu-26, Leu-30 to Gln-35. — S0052: 1
HNGJK63	839947	7818	2 - 181	17570	S0052: 1 and L0758: 1.
HNGJK40	711219	7819	138 - 380	17571	Thr-26 to Gly-31. — S0052: 1
HNGJI40	711211	7820	2 - 385	17572	Ala-6 to Gly-11, Phe-21 to Leu-28, Cys-45 to Ile-53. — S0052: 1
HNGJI04	615285	7821	3 - 164	17573	Gly-34 to Phe-41. — S0052: 1
HNGJG75	942946	7822	90 - 662	17574	His-1 to Phe-14, Gln-18 to Arg-24, Ser-44 to His-49, Phe-121 to Asp-131, Ser-149 to Thr-174. — AR061: 4, AR089: 1 S0052: 1
	951158	9652	469 - 251	19404	
HNGJG35	422897	7823	393 - 253	17575	S0052: 1
HNGJE38	495689	7824	630 - 109	17576	S0052: 1 and L0758: 1.
	860403	9653	95 - 379	19405	Pro-39 to Cys-52.
HNGJE23	600366	7825	634 - 467	17577	Tyr-17 to Lys-22, Gly-46 to Thr-54. — S0052: 1
	860413	9654	463 - 296	19406	Lys-6 to Leu-12.
HNGJE08	973790	7826	392 - 547	17578	Pro-40 to Glu-50. — S0052: 1
HNGJE01	973797	7827	392 - 529	17579	S0052: 1
HNGJC68	888447	7828	103 - 348	17580	AR051: 86, AR050: 64, AR054: 54 S0052: 1
HNGJC29	695660	7829	96 - 425	17581	Trp-1 to Arg-8, Gln-14 to Thr-21, Ser-39 to Gly-51, Arg-65 to Gln-72, Ser-80 to Glu-85, His-90 to Gly-96. — S0052: 1 and L0747: 1.
HNGJB49	723004	7830	3 - 302	17582	His-7 to Gly-22, His-62 to Asn-71. — L0748: 5, S0052: 1 and L0749: 1.

HNGIA75	888461	95 - 256	17583	Thr-17 to Leu-26, Gly-47 to Gly-53.	AR051: 25, AR050: 16, AR054: 1 S0052: 1		
HNGIX71	760398	3 - 293	17584	His-30 to Gln-37.	L0748: 2 and S0052: 1.		
HNGIW45	717698	1 - 198	17585	Ser-46 to Lys-56.	S0052: 1		
HNGIS92	792748	1 - 540	17586		S0052: 1 and L0439: 1.		
HNGIS70	757216	373 - 621	17587	Ser-66 to Ser-73.	S0052: 1 and L0740: 1.		
HNGIS02	920221	327 - 542	17588	Ser-15 to Lys-24.	L0769: 1 and S0052: 1.		
HNGIR10	964715	317 - 496	17589	Pro-7 to Phe-12.	L0769: 3 and S0052: 1.		
HNGIQ78	772866	112 - 324	17590	Asp-6 to Ser-20, Arg-46 to Phe-53, Pro-60 to Leu-67.	S0052: 1		
	773431	586 - 365	19407				
HNGIQ71	495771	487 - 176	17591	Ala-1 to Cys-7, Gln-21 to Gly-40, Pro-49 to Gly-54, Ser-72 to Trp-91.	S0052: 1		
	860506	308 - 658	19408				
HNGIP47	720374	247 - 450	17592	His-15 to Met-25.	S0052: 1 and L0589: 1.		
HNGIP27	860515	210 - 476	17593		S0052: 1		
HNGIO64	487439	231 - 401	17594	Ala-15 to Arg-22.	S0052: 1		
	927636	396 - 280	19409				
HNGIO52	727196	207 - 422	17595		S0052: 1 and L0756: 1.		
HNGIL94	793171	123 - 326	17596	Pro-15 to Arg-22.	S0052: 1		
HNGIL84	781970	50 - 340	17597		L0747: 2 and S0052: 1.		
HNGIL82	812699	174 - 368	17598	Ile-3 to Trp-14, Glu-54 to Asn-65.	S0052: 1		
HNGIL51	725003	1 - 249	17599	Gly-1 to Glu-8, Thr-37 to Arg-47, Pro-57 to Arg-62, Pro-78 to Thr-83.	S0052: 1	2p11.2	178640, 216900
HNGIL22	860525	76 - 306	17600	Ala-1 to Thr-6.	L0527: 1 and S0052: 1.		
HNGIJ51	868068	178 - 348	17601	Thr-9 to Cys-14, Lys-38 to Arg-45.	L0752: 2 and S0052: 1.		
HNGHY44	973977	245 - 424	17602	Asp-25 to Gly-32.	S0052: 1		

HNGHO94	793271	7851	1 - 219	17603	Asn-1 to His-10, Pro-53 to Ala-72.	S0052: 1
HNGHM61	576221	7852	39 - 236	17604	Pro-4 to His-18, Pro-28 to Arg-39, Gln-53 to Gly-58.	S0052: 1
HNGHL46	860541	7853	291 - 476	17605		S0052: 1
HNGHJ01	916757	7854	1 - 204	17606	Gln-1 to Asp-9, Asp-19 to Gly-25, His-58 to Ala-65.	S0052: 1 and L0758: 1.
HNGHG39	860554	7855	3 - 248	17607	His-1 to Met-8.	S0052: 1 and L0366: 1.
HNGHD68	576315	7856	246 - 1	17608		S0052: 1
HNGGV02	920377	7857	212 - 430	17609		S0052: 1
HNGGT08	959649	7858	44 - 193	17610		S0052: 1 and L0748: 1.
HNGGP91	576251	7859	1 - 360	17611		L0743: 2 and S0052: 1.
HNGGP55	578450	7860	91 - 186	17612		S0052: 1
HNGGL74	765644	7861	828 - 487	17613	Tyr-21 to Tyr-26, His-36 to Lys-44, Leu-70 to Gly-76.	AR050: 136, AR054: 117, AR051: 105 S0052: 1
HNGGF86	860568	7862	247 - 426	17614	Thr-1 to His-11.	S0052: 1
HNGGB58	738213	7863	16 - 156	17615		S0052: 1 and L0754: 1.
HNGGB28	703315	7864	2 - 199	17616	Ala-1 to Ala-10, Pro-12 to Ser-19, Asp-31 to Gly-44, Pro-49 to Arg-66.	S0052: 1
HNGFX89	506492	7865	202 - 468	17617	Asn-13 to Ala-19.	AR050: 19, AR051: 15, AR054: 8 S0052: 1
	578679	9658	34 - 144	19410		
	578680	9659	529 - 413	19411		
HNGFX75	608695	7866	394 - 630	17618		S0052: 1
HNGFU33	702584	7867	472 - 663	17619	Gly-2 to Phe-8, Pro-17 to Asn-22, Met-56 to Gly-62.	L0747: 3, L0803: 2, L0659: 2, L0666: 2, L0662: 1, L0546: 1, S0052: 1, L0750: 1, L0779: 1, L0752: 1 and L0758: 1.
HNGFT02	920480	7868	212 - 319	17620		S0052: 1 and L0747: 1.

397

HNGFR06	935821	7869	2 - 421	17621	Leu-41 to Glu-52.	S0052: 1, L0439: 1 and L0754: 1.
HNGFP92	842276	7870	439 - 621	17622	Gly-1 to Asp-7, Ala-17 to Gly-22.	S0052: 1
	889744	9660	140 - 442	19412	Thr-3 to Ala-33, Ala-44 to Cys-49, Phe-64 to Trp-71, Ala-84 to Arg-89, Ala-94 to Ser-101.	
HNGFN70	872950	7871	3 - 191	17623	Ser-10 to Asn-17, Gly-32 to Lys-44.	AR051: 41, AR050: 40, AR054: 33 S0052: 1
HNGFM17	664280	7872	345 - 635	17624	Leu-11 to Glu-19, Gly-27 to Ala-36, Ser-45 to Ser-59.	S0052: 1 and L0748: 1.
HNGFK34	703419	7873	1 - 309	17625	Thr-2 to Trp-9, Val-33 to Leu-38, Gly-43 to Cys-51.	L0518: 1 and S0052: 1.
HNGFI11	967304	7874	1 - 285	17626	Glu-63 to Ser-68, Asp-75 to Pro-82.	L0517: 1 and S0052: 1.
HNGFH90	789066	7875	45 - 317	17627	Gln-11 to Gln-16, Ser-24 to Arg-29, Ser-39 to Gly-45.	S0052: 1 and L0594: 1.
HNGFH58	738240	7876	1 - 201	17628		L0748: 2 and S0052: 1.
HNGFH30	823363	7877	2582 - 2280	17629	Lys-30 to Met-35, Pro-49 to Gly-56, His-72 to Ser-77, Ala-82 to Gly-92.	AR050: 17, AR054: 1 S0052: 1
	824134	9661	227 - 649	19413	Lys-30 to Met-35, Pro-49 to Gly-56.	
	854048	9662	2 - 79	19414	Lys-1 to Leu-12.	
HNGFG10	968059	7878	800 - 1042	17630	Ser-64 to His-69.	L0747: 3, L0589: 2 and S0052: 1.
HNGFF50	941480	7879	1 - 342	17631	Ala-3 to Thr-11, Ala-33 to His-43, Gly-67 to Leu-74,	S0052: 1

Clone	Accession	No.	Range	ID	Amino acid region	Code	Chromosome	Other
HNGFE75	486855	7880	290 - 502		Pro-96 to His-102, Gln-104 to Thr-114.			
				17632	Glu-39 to Gly-46, Ser-56 to Arg-64.	S0052: 1		
HNGFE58	490615	9663	493 - 89	19415	Leu-10 to Gln-17.			
	871493	7881	108 - 470	17633	Pro-17 to Trp-22, Ile-26 to Gly-31, Ala-35 to Gly-46, Asp-49 to Glu-88, Met-105 to Pro-113.	S0052: 1 and L0596: 1.		
HNGFA23	927579	7882	101 - 250	17634	Trp-17 to Met-23, Gly-25 to Asn-40, Phe-43 to Arg-48.	L0775: 1 and S0052: 1.		
HNGFA18	666626	7883	102 - 395	17635	Ser-6 to Ser-13, Leu-20 to Pro-27.	S0052: 1, L0779: 1 and L0731: 1.		
HNGEY55	888324	7884	1 - 375	17636	Gly-1 to Trp-9, Gly-45 to Asp-57, Gly-64 to Trp-81.	AR050: 23, AR051: 19, AR054: 13 S0052: 1		
HNGEY38	868073	7885	248 - 460	17637	Glu-1 to Asp-9.	L2245: 1 and S0052: 1.		
HNGEX10	860615	7886	129 - 452	17638	Ala-1 to Ser-6, Pro-24 to His-36, Val-80 to Asn-88, Gly-94 to Gln-100.	L0773: 1 and S0052: 1.		
	964163	9664	569 - 159	19416	Pro-19 to Gln-25.			
HNGEW38	573234	7887	298 - 690	17639	Trp-7 to Pro-12, Leu-38 to Lys-44, Thr-69 to Arg-76, Leu-93 to Ser-99, His-115 to Ser-124.	S0052: 1 and L0742: 1.	22q12.1	123620, 188826, 600850, 601669
HNGEU20	669811	7888	320 - 535	17640	Glu-6 to Lys-22, Ser-42 to Ser-55, Ser-58 to Ala-65.	L0754: 2 and S0052: 1.		
HNGET91	789373	7889	3 - 377	17641	His-1 to Ile-16.	L0754: 2 and S0052: 1.		
HNGER86	578910	7890	3 - 263	17642	Gln-1 to Ala-7, Trp-15 to Thr-21.	S0052: 1		
HNGER73	578909	7891	10 - 324	17643	Gly-11 to Pro-17,	S0052: 1		

HNGER62	578922	7892	107 - 307	17644	Trp-31 to Trp-38, Ser-45 to Met-51.	S0052: 1
HNGER61	578907	7893	116 - 325	17645	Gln-6 to Arg-18.	S0052: 1
HNGER50	576479	7894	60 - 230	17646	Ser-16 to Thr-24, Ala-37 to Ser-49.	S0052: 1
HNGER38	578908	7895	1 - 138	17647	Lys-8 to Cys-14.	S0052: 1
HNGER26	860623	7896	127 - 384	17648	Gly-1 to Cys-7, Asp-23 to Gly-31, Cys-34 to Asn-40.	S0052: 1
HNGEO79	951489	7897	200 - 640	17649	Gln-41 to Asp-48, Ser-67 to Leu-72, Thr-79 to Ser-84, Ile-96 to Ser-103, Arg-120 to Ser-127.	AR061: 46, AR089: 19, AR051: 12, AR054: 10, AR050: 9 S0052: 1 and L0758: 1.
HNGEN04	586457	7898	30 - 302	17650	Arg-1 to Gly-13, His-19 to Gly-24.	AR050: 63, AR051: 54, AR054: 40 S0052: 1
HNGEK57	734923	7899	92 - 307	17651		S0052: 1 and L0592: 1.
HNGEK16	578914	7900	2 - 172	17652	Ala-1 to Asp-9.	S0052: 1
HNGEI44	800199	7901	13 - 345	17653	Pro-10 to Phe-15, Ala-59 to Pro-66, Pro-69 to Gln-85.	S0052: 1
HNGEI11	967314	7902	121 - 276	17654		S0052: 1 and L0589: 1.
HNGEG07	953658	7903	274 - 411	17655	Lys-26 to His-46.	S0052: 1 and L0589: 1.
HNGEF81	570236	7904	2 - 220	17656	Glu-3 to Asp-13, Pro-18 to His-39.	S0052: 1
	590251	9665	483 - 731	19417	Gly-10 to Asn-20, Glu-61 to Gly-79.	
	860649	9666	246 - 560	19418	Asp-10 to Gly-16.	S0052: 1 and L0589: 1.
HNGEE10	968043	7905	72 - 251	17657		S0052: 1
HNGED92	654085	7906	257 - 3	17658	Ser-1 to Ile-7, Pro-32 to His-38, Pro-60 to Ala-69, Arg-71 to Gly-79.	
	846048	9667	56 - 265	19419		

Clone	No.	ID	Range	No.	Residues	Deposit
HNGED46	838885	7907	259 - 441	17659	Glu-29 to Leu-34, Gly-43 to Lys-50.	S0052: 1
HNGEB84	783132	7908	83 - 235	17660	Arg-31 to Ala-37.	S0052: 1 and L0748: 1.
HNGEA17	561293	7909	1 - 261	17661	Leu-8 to Arg-15, Gly-72 to Leu-81.	S0052: 1
HNGDZ93	888677	7910	1 - 132	17662	Ile-20 to Asn-25, Pro-33 to Ser-43.	AR051: 21, AR054: 7, AR050: 1 S0052: 1
HNGDW53	973311	7911	153 - 380	17663		S0052: 1
HNGDW19	502499	7912	233 - 448	17664		S0052: 1
	511193	9668	602 - 261	19420	His-10 to Lys-19, Arg-21 to Cys-29, Pro-31 to Ser-41, Gln-47 to Trp-54, Ala-57 to Gly-69, Gln-84 to Phe-102.	
HNGDV38	572912	7913	50 - 136	17665		S0052: 1
HNGDV26	572906	7914	70 - 249	17666	Pro-24 to Arg-38.	S0052: 1
HNGDV15	572902	7915	3 - 275	17667	Ser-1 to Asn-16, Asn-27 to Gln-41.	S0052: 1
HNGDV02	920504	7916	3 - 167	17668	Ser-24 to Ser-35.	S0052: 1
HNGDV01	916989	7917	73 - 204	17669	Gln-16 to His-27, Ala-32 to Cys-37.	S0052: 1
HNGDS21	396889	7918	538 - 404	17670	Ile-40 to Arg-45.	S0052: 1
	670757	9669	151 - 291	19421	Pro-32 to Trp-37.	
HNGDR65	572896	7919	116 - 223	17671	Asp-1 to Ser-7.	S0052: 1
HNGDQ68	753164	7920	4 - 318	17672	Gly-1 to Gly-8, Thr-16 to Gly-25, Gly-65 to Glu-80.	S0052: 1 and L0592: 1.
HNGDQ56	733550	7921	7 - 270	17673	Phe-64 to Arg-71, Gln-77 to His-83.	S0052: 1 and L0361: 1.
HNGDO68	753580	7922	3 - 107	17674		S0052: 1 and L0748: 1.
HNGDO54	521883	7923	225 - 368	17675	Lys-9 to Leu-14.	S0052: 1
HNGDO53	574450	7924	68 - 217	17676		S0052: 1
HNGDO52	868772	7925	1 - 192	17677	Gly-9 to Gly-15, Pro-33 to Pro-40.	S0052: 1

HNGDO40	574449	7926	166 - 2	17678	Pro-1 to Lys-11.	S0052: 1
HNGDO30	574446	7927	45 - 131	17679	Glu-24 to Ser-29.	S0052: 1
HNGDO29	526804	7928	186 - 347	17680	Gln-11 to Gln-17.	S0052: 1
HNGDO18	526514	7929	122 - 238	17681	Arg-15 to Glu-24.	S0052: 1
HNGDO06	936059	7930	136 - 261	17682	Ser-15 to Phe-22, Ala-35 to Arg-41.	S0052: 1
HNGDO05	932400	7931	51 - 125	17683		S0052: 1
HNGDO04	523469	7932	219 - 320	17684	Leu-13 to Arg-19.	S0052: 1
HNGDM11	967512	7933	391 - 534	17685		L0766: 1, S0052: 1 and L0754: 1.
HNGDL51	860671	7934	1 - 258	17686	Asn-6 to Ser-15, Pro-29 to Ser-34, Ser-49 to Arg-54.	AR054: 26, AR050: 23, AR051: 22 S0052: 1
HNGDF94	796744	7935	24 - 128	17687		S0052: 1
HNGDF70	506694	7936	87 - 206	17688		S0052: 1
HNGDF58	506693	7937	19 - 315	17689	Glu-36 to Ala-46, Phe-50 to Cys-56.	L0748: 2 and S0052: 1.
HNGDF38	574349	7938	112 - 240	17690	Asp-1 to Asn-8.	S0052: 1
HNGDF10	968240	7939	135 - 350	17691		S0052: 1
HNGDE79	781680	7940	269 - 403	17692	Glu-35 to Leu-41.	S0052: 1 and L0748: 1.
HNGDE74	765812	7941	1 - 120	17693		L0748: 2 and S0052: 1.
HNGDD27	860680	7942	91 - 252	17694	Met-26 to Ser-32.	S0052: 1
HNGDD03	924933	7943	59 - 202	17695	Arg-6 to Asn-12.	S0052: 1
HNGDD02	920675	7944	70 - 186	17696		S0052: 1
HNGDB78	772804	7945	1 - 195	17697		S0052: 1
HNGDB61	742043	7946	177 - 452	17698		S0052: 1 and L0589: 1.
HNGDB59	688019	7947	33 - 143	17699	Asn-1 to Lys-12.	S0052: 1
HNGDB54	574359	7948	12 - 191	17700		S0052: 1
HNGDB40	574346	7949	3 - 110	17701	Lys-6 to Arg-12.	S0052: 1
HNGDB16	574352	7950	2 - 100	17702	Lys-20 to Gly-25, Arg-27 to Thr-33.	S0052: 1
HNGDB04	576460	7951	2 - 115	17703	Thr-4 to Ala-11.	S0052: 1
HNGDA08	959964	7952	180 - 455	17704	Ser-1 to Gly-6, Arg-11 to Trp-20.	L0770: 1 and S0052: 1.
HNGCZ54	730895	7953	62 - 292	17705		S0052: 1 and L0746: 1.

HNGCY60	827144	7954	1 - 447	17706	Lys-1 to Ser-8.	S0052: 1 and L0747: 1.
HNGCY10	968247	7955	121 - 246	17707	Ala-30 to Ser-40.	L0766: 1 and S0052: 1.
HNGCQ38	544484	7956	302 - 87	17708	Arg-33 to Phe-38.	S0052: 1
	860692	9670	35 - 226	19422		
HNGCP14	417271	7957	1 - 258	17709		S0052: 1, L0748: 1 and L0731: 1.
HNGCO71	663340	7958	271 - 2	17710	Lys-6 to Gly-12, Pro-40 to Asn-47.	S0052: 1
	889333	9671	746 - 510	19423		
	889334	9672	3 - 185	19424		
	889335	9673	2 - 145	19425		
HNGCO15	494338	7959	200 - 3	17711	Arg-11 to Leu-17.	S0052: 1
	519229	9674	1 - 132	19426	Gly-10 to Phe-19.	
	825388	9675	1 - 255	19427		
HNGCG39	704547	7960	219 - 410	17712		L0743: 2 and S0052: 1.
HNGCE81	961700	7961	803 - 1195	17713	Ser-1 to Cys-10, Gly-21 to Asp-26.	S0052: 1
	971688	9676	576 - 184	19428	Ser-1 to Cys-10, Gly-21 to Asp-26.	
	971689	9677	143 - 331	19429	Arg-1 to Trp-31, Pro-33 to Arg-50, Leu-52 to Arg-60.	
	971690	9678	261 - 563	19430	Thr-27 to Ala-34, Arg-36 to Arg-44, Pro-89 to Ser-100.	
HNGCE40	860699	7962	536 - 745	17714	Gly-8 to Glu-18.	AR051: 24, AR054: 9, AR050: 3 S0052: 1
HNGCC02	638114	7963	192 - 419	17715	Pro-39 to Ser-47.	S0052: 1
	917319	9679	186 - 413	19431		
HNGBW07	953894	7964	32 - 277	17716	Ala-30 to Lys-35.	S0052: 1 and L0749: 1.
HNGBS77	494334	7965	263 - 96	17717	Glu-43 to Tyr-51.	S0052: 1
	860721	9680	769 - 975	19432	Asn-1 to Lys-6.	
HNGBP42	574401	7966	76 - 291	17718	Thr-20 to Gly-27.	AR051: 11, AR054: 8, AR050: 1

Clone		SEQ ID	Range			
HNGBO01	921413	7967	1 - 144	17719		S0052: 1
HNGBN12	920949	7968	88 - 333	17720	Ser-70 to Trp-77.	S0052: 1 and L0759: 1. L0800: 1, S0052: 1 and L0758: 1.
HNGBL40	880778	7969	72 - 356	17721		S0052: 1 and L0361: 1.
HNGBF25	678767	7970	331 - 507	17722	Pro-15 to Leu-22.	S0052: 1 and L0745: 1.
HNGAZ70	757413	7971	138 - 359	17723	Pro-69 to Ser-74.	S0052: 1 and L0754: 1.
HNGAZ56	733631	7972	186 - 416	17724	Asn-8 to Lys-14, Arg-42 to Arg-48, Ile-50 to Gly-55.	L0747: 2 and S0052: 1.
HNGAZ08	959977	7973	242 - 436	17725		L0766: 1, S0052: 1 and L0779: 1.
HNGAX93	792525	7974	198 - 1	17726		S0052: 1 and L0749: 1.
HNGAW50	723632	7975	3 - 107	17727		L0748: 2, S0052: 1 and L0749: 1.
HNGAV20	669901	7976	1 - 186	17728		L0748: 4, L0659: 1 and S0052: 1.
HNGAR02	920736	7977	105 - 332	17729	Arg-25 to Glu-41.	L0375: 1, L0365: 1 and S0052: 1.
HNGAQ75	766512	7978	3 - 149	17730	Arg-6 to Leu-13.	S0052: 1
HNGAQ73	574649	7979	1 - 150	17731		S0052: 1
HNGAQ49	574652	7980	25 - 171	17732		S0052: 1
HNGAQ38	574658	7981	3 - 125	17733	Pro-10 to Thr-19.	S0052: 1
HNGAQ37	575492	7982	3 - 149	17734	Val-22 to Ser-34.	S0052: 1
HNGAQ14	574660	7983	27 - 95	17735	Pro-1 to Phe-8.	S0052: 1
HNGAQ02	920756	7984	5 - 115	17736	Gln-10 to Gln-18, His-20 to Asn-27.	S0052: 1
HNGAQ01	921434	7985	3 - 161	17737	Pro-16 to Gly-25.	S0052: 1
HNGAP69	513808	7986	406 - 666	17738		S0052: 1
	537606	9681	417 - 40	19433		
HNGAM31	426200	7987	287 - 39	17739	Thr-46 to Ser-54.	S0052: 1
	860765	9682	117 - 374	19434		
HNGAJ78	773425	7988	281 - 637	17740	Pro-7 to Ser-14.	AR054: 44, AR050: 36, AR051: 5 S0052: 1

Clone	Accession	No.	Range	SEQ ID	Mutation	Notation	
HNGAD20	888315	9683	1 - 219	19435			
	890591	7989	3 - 158	17741		AR051: 23, AR054: 12, AR050: 3 S0052: 1	
HNFJI67	751605	7990	75 - 260	17742	Glu-48 to Ala-54.	H0271: 1 and L0599: 1.	
HNFJB08	959428	7991	326 - 520	17743	Asn-1 to Leu-14, Lys-25 to Arg-30.	H0271: 1, L0748: 1 and L0758: 1.	
HNFIY76	767681	7992	143 - 316	17744		H0416: 1 and L0749: 1.	
HNFIW53	467056	7993	172 - 363	17745	Ala-24 to Lys-29, Gly-37 to Arg-52.	H0416: 1 and L0745: 1.	
HNFIW14	658129	7994	2 - 265	17746		H0416: 1 and L0591: 1.	17
HNFIT17	429602	7995	314 - 550	17747	Gln-1 to Gly-11, Gln-22 to Ser-29.	H0416: 1	
	460818	9684	248 - 24	19436	Thr-1 to Thr-12.		
HNFIN07	953330	7996	257 - 526	17748	Asp-1 to Thr-10.	H0416: 1 and L0748: 1.	
HNFID11	966347	7997	162 - 434	17749	Pro-8 to Gly-13.	H0416: 1	
HNFIA59	739358	7998	283 - 450	17750	His-8 to Ser-16, Asp-50 to Gly-55.	H0416: 1 and L0748: 1.	
HNFHY59	951005	7999	948 - 769	17751		H0271: 1	
HNFHX58	735299	8000	320 - 673	17752	Glu-49 to Glu-58, His-70 to Gly-75.	H0271: 1 and L0748: 1.	
HNFHV96	716913	8001	3 - 269	17753	Pro-9 to Thr-20, Gln-55 to Trp-65, Glu-70 to Ala-85.	L0766: 2, L0439: 2, H0271: 1 and L0756: 1.	
HNFHU61	741901	8002	123 - 293	17754		H0271: 1	
HNFHR56	733297	8003	230 - 57	17755		H0271: 1	
	868091	9685	439 - 600	19437			
HNFHA09	961165	8004	188 - 463	17756	Lys-1 to Glu-8, Gln-20 to Ala-27.	H0271: 1 and L0592: 1.	
HNFGS84	783199	8005	1 - 93	17757	Pro-26 to Arg-31.	L0745: 2, L0746: 2, H0271: 1 and L0748: 1.	
HNFGJ65	574598	8006	3 - 95	17758	His-1 to Cys-12.	H0271: 1	
HNFGJ42	526844	8007	2 - 118	17759		H0271: 1	
HNFGJ17	574597	8008	80 - 184	17760	Asn-1 to Glu-13.	H0271: 1	
HNFGH36	574601	8009	22 - 150	17761		H0271: 1	

HNFGH32	574605	8010	127 - 240	17762		H0271: 1	
HNFGG80	574602	8011	1 - 72	17763		H0271: 1	
HNFGG18	574608	8012	37 - 144	17764	Thr-8 to Arg-14.	H0271: 1 and L0756: 1.	
HNFGG06	936086	8013	2 - 295	17765		H0271: 1	
HNFGF88	522077	8014	126 - 257	17766		H0271: 1	
HNFGF66	860896	8015	88 - 372	17767		H0271: 1 and L0758: 1.	
HNFGF52	522293	8016	61 - 360	17768		H0271: 1	
HNFGF37	574609	8017	41 - 223	17769	Leu-50 to Val-55.	H0271: 1	22q
HNFGE80	571306	8018	75 - 245	17770	Lys-1 to Asp-6.	H0271: 1	
HNFGE41	504165	8019	2 - 142	17771	Gly-30 to Lys-36.	H0271: 1	
HNFGB81	778250	8020	297 - 497	17772	Cys-37 to Asp-42.	L0599: 2 and H0271: 1.	
HNFGA92	790617	8021	222 - 419	17773		H0271: 1 and L0750: 1.	
HNFGA85	521880	8022	51 - 365	17774		H0271: 1	
HNFGA57	571305	8023	3 - 113	17775		H0271: 1	
HNFFU64	578096	8024	172 - 282	17776		H0271: 1, UNKWN: 1 and L0600: 1.	
HNFFR38	455273	8025	704 - 339	17777	Gln-30 to Lys-35, Leu-54 to His-60.	H0271: 1	
	860903	9686	15 - 284	19438			
HNFFQ29	860905	8026	114 - 404	17778	Ser-76 to Pro-86.	H0271: 1 and L0774: 1.	
HNFFO20	836239	8027	195 - 350	17779	Phe-14 to Leu-21, His-33 to Glu-40.	H0271: 1 and L0746: 1.	
HNFFL57	786899	8028	208 - 423	17780	Leu-15 to Gly-20.	H0271: 1 and L0754: 1.	
HNFFF05	932432	8029	37 - 132	17781		L0471: 1 and H0271: 1.	
HNFFC75	767453	8030	3 - 158	17782		H0271: 1	
HNFEY24	677114	8031	65 - 286	17783		H0271: 1	
HNFES06	936099	8032	198 - 332	17784		H0271: 1 and L0748: 1.	
HNFEQ28	685514	8033	157 - 396	17785		H0271: 1 and L0747: 1.	
HNFEL84	783211	8034	249 - 392	17786		H0271: 1 and L0748: 1.	
HNFCV02	861004	8035	73 - 279	17787	Pro-36 to Gly-45, Ser-64 to Thr-69.	AR051: 40, AR054: 38, AR050: 29 H0271: 1	
HNFCO90	529966	8036	31 - 168	17788	Ile-14 to Ser-30.	H0271: 1	
HNFCO85	529967	8037	2 - 151	17789		H0271: 1	
HNFCO52	518637	8038	1 - 216	17790		H0271: 1	

HNFCO41	529970	8039	2 - 145		H0271: 1		
HNFCO37	507312	8040	634 - 804		L0748: 4, L0749: 2 and H0271: 1.		
HNFCO32	529971	8041	3 - 206		H0271: 1		
HNFCO22	529973	8042	35 - 160		H0271: 1		
HNFCL25	556464	8043	116 - 232		AR051: 2, AR054: 1, AR050: 1 H0271: 1 and L0457: 1.		
HNFBY08	960222	8044	1 - 177	Gln-16 to Lys-22.	L0748: 2 and H0271: 1.		
HNFBT45	574972	8045	154 - 375	Ser-1 to Trp-6, Asn-8 to Trp-13, Ala-21 to Gly-38, Cys-46 to Trp-52.	AR051: 24, AR054: 9, AR050: 2 H0271: 1		
HNFBQ02	921029	8046	29 - 271	Leu-15 to Thr-21, Lys-27 to Leu-36, Asp-39 to Thr-47.	H0271: 1 and L0745: 1.		
HNFAF78	601639	8047	567 - 313	Arg-25 to Ala-31.	H0271: 1		
	679579	9687	202 - 2				
	892100	9688	276 - 845	Arg-1 to Gly-8, Pro-10 to Gly-15, His-41 to Gly-48, Pro-77 to Gly-91, Leu-151 to Val-158.			
HNEDU66	861030	8048	116 - 337		H0179: 1 and L0776: 1.		
HNEDR54	730953	8049	229 - 405	Leu-20 to Cys-26, His-52 to Ser-58.	H0179: 1 and L0777: 1.		
HNEDP86	785736	8050	170 - 394		H0179: 1 and L0766: 1.		
HNEDO77	955894	8051	1 - 384	Pro-8 to Ala-20, Pro-36 to Ser-43, Ser-79 to Thr-84, Gly-90 to Pro-95.	H0179: 1 and L0764: 1.	19	
HNEDJ03	967115	8052	49 - 351		H0179: 1, L0762: 1, L0806: 1, L0666: 1 and L0439: 1.	7p15	138079, 138079, 139191, 142959, 153880, 180104, 600994, 601649
HNEDH59	739533	8053	309 - 527		L0439: 5 and H0179: 1.		

HNEDF15	946986	8054	56 - 235	17806		H0179: 1
	973855	9689	443 - 610	19441	His-8 to Pro-16.	
	973858	9690	107 - 265	19442		
HNEDD15	812918	8055	115 - 450	17807	Leu-58 to Lys-63, Ser-72 to Ala-84.	L0530: 2 and H0179: 1.
HNECS71	761415	8056	169 - 363	17808	Gly-29 to Glu-35.	H0179: 1 and L0599: 1.
HNECP28	469521	8057	215 - 424	17809	Thr-50 to Ile-59.	H0179: 1 and L0599: 1.
	470445	9691	141 - 1	19443	His-39 to Arg-47.	
HNECN28	558790	8058	27 - 251	17810	Ser-21 to Gly-28.	H0179: 1
HNECI41	712607	8059	115 - 333	17811	Pro-42 to Glu-49, Arg-65 to Ser-73.	H0179: 1 and L0749: 1.
HNECD74	470015	8060	368 - 508	17812		H0179: 1
	484793	9692	397 - 185	19444		
HNEBY64	514762	8061	480 - 767	17813	Ser-8 to Cys-14, Lys-55 to Cys-61.	H0179: 1
HNEBY10	968455	8062	503 - 318	17814	Leu-3 to Gln-19.	H0179: 1 and L0776: 1.
HNEBN04	927811	8063	168 - 422	17815		H0179: 1 and L0366: 1.
HNEBM59	950732	8064	16 - 327	17816	Thr-48 to Pro-53.	H0179: 1
HNEBM40	868109	8065	237 - 431	17817		H0179: 1
HNEBJ95	529572	8066	2 - 202	17818	Pro-8 to Arg-13, Arg-28 to Gly-36, Pro-49 to Gly-54.	H0179: 1
HNEBJ81	529571	8067	15 - 134	17819	Leu-21 to Glu-28.	AR061: 3, AR089: 2 H0179: 1
HNEBJ67	529573	8068	25 - 126	17820	Glu-21 to Cys-30.	H0179: 1
HNEBJ62	861074	8069	28 - 252	17821	Leu-24 to Ser-40, Leu-68 to Arg-74.	H0179: 1
HNEBJ43	529574	8070	2 - 199	17822	Lys-27 to Glu-34.	H0179: 1
HNEBJ31	529577	8071	35 - 202	17823		H0179: 1
HNEBJ21	529578	8072	1 - 180	17824		H0179: 1
HNEBJ10	968440	8073	3 - 167	17825		H0179: 1 and L0766: 1.
HNEBJ09	529579	8074	42 - 134	17826	Leu-6 to Pro-11.	H0179: 1
HNEBJ07	861072	8075	76 - 282	17827	Ser-10 to Pro-25, Thr-43 to Arg-51, Val-59 to Trp-69.	H0179: 1

Clone	ID1	ID2	Range	SeqID	Description	Homology	Cytoband	Numbers
HNEBF27	684467	8076	2 - 148	17828	Ser-22 to Ser-27.	H0179: 1		
HNEBF20	529643	8077	2 - 79	17829	Gln-14 to Gly-23.	H0179: 1, L0662: 1, L0652: 1, L0776: 1 and L0758: 1.		
HNEAQ86	575534	8078	181 - 300	17830	Arg-6 to Cys-12.	H0179: 1		
HNEAQ37	507280	8079	1 - 237	17831		H0179: 1		
HNEAN10	968468	8080	143 - 349	17832		H0179: 1 and L0746: 1.		
HNEAK47	529646	8081	65 - 202	17833		H0179: 1		
HNEAF71	761414	8082	1 - 225	17834		H0179: 1 and L0742: 1.		
HNEAA59	738531	8083	222 - 488	17835	Pro-74 to Asn-81.	L0747: 2 and H0179: 1.		
HMWJD93	849419	8084	11 - 262	17836	Val-57 to Glu-62.	H0341: 1 and L0748: 1.		
HMWIZ55	731809	8085	2 - 151	17837		H0341: 1		
HMWIX77	973813	8086	201 - 647	17838	Glu-8 to Glu-15, Pro-43 to His-48.	H0341: 1		
HMWIX37	708676	8087	147 - 275	17839	Gly-5 to Asp-12.	L0747: 2, H0341: 1, L0774: 1, L0657: 1 and L0754: 1.		
HMWIS12	970753	8088	850 - 996	17840	Arg-14 to Leu-21.	L0779: 2, H0341: 1, L0766: 1 and L0515: 1.		
HMWIQ64	842657	8089	505 - 744	17841		L0748: 2 and H0341: 1.		
HMWIQ44	716509	8090	198 - 55	17842	Arg-20 to Asp-37.	H0341: 1		
	716650	9693	86 - 307	19445	Lys-1 to Pro-7.			
HMWIO15	956253	8091	124 - 372	17843	Gln-23 to Thr-29, Cys-61 to Pro-73.	H0341: 1		
HMWIM05	861094	8092	178 - 366	17844	Leu-54 to Gly-63.	AR050: 75, AR054: 68, AR051: 62 H0341: 1		
HMWIL08	959512	8093	3 - 722	17845	Glu-28 to Pro-36, Gly-47 to Gly-56.	H0341: 1, L0741: 1, L0745: 1, L0747: 1 and L0759: 1.		
HMWIK10	964701	8094	184 - 558	17846	Leu-8 to Ser-16.	H0341: 1 and L0769: 1.		
HMWIG75	767332	8095	131 - 331	17847	Pro-10 to Gly-20, Gly-29 to His-35.	H0341: 1		
HMWIG26	861091	8096	2 - 301	17848		H0341: 1		
HMWIG17	663972	8097	4 - 159	17849	Asp-23 to Lys-29.	L0748: 2, H0341: 1 and L0747: 1.		
HMWIG13	657260	8098	19 - 354	17850	Ala-3 to Ser-8, Pro-10 to Gly-19,	H0341: 1	9q34.1	103000, 114350, 120900, 131195,

HMWIG01	913689	8099	51 - 161	17851	Leu-37 to Ser-53, Ser-63 to Cys-70, Pro-82 to Gln-93, Pro-95 to Pro-101.	H0341: 1	185000, 189980, 600184, 602575, 602575
HMWID28	419821	8100	3 - 305	17852		H0341: 1 and L0599: 1.	
HMWIA19	928488	8101	1 - 270	17853	Phe-16 to Ser-22, Pro-50 to Pro-56.	AR054: 137, AR050: 129, AR051: 100 H0341: 1	
HMWHZ43	861097	8102	3 - 227	17854	Ile-1 to Pro-15, Leu-43 to Gly-48, Thr-51 to Glu-62, Leu-67 to Asn-75.	H0341: 1	
HMWHHW82	779903	8103	55 - 174	17855	Phe-5 to Asp-10.	H0341: 1 and L0748: 1.	
HMWHV36	708099	8104	102 - 254	17856	Ser-9 to Phe-17, His-26 to Arg-32.	H0341: 1 and L0748: 1.	3
HMWHV12	970742	8105	184 - 420	17857	Ala-22 to Leu-30.	H0341: 1 and L0747: 1.	
HMWHP86	785510	8106	88 - 174	17858		H0341: 1 and L0748: 1.	
HMWHD94	794306	8107	1 - 108	17859		H0341: 1	
HMWHB71	565104	8108	899 - 1129	17860	His-49 to Ala-57.	H0341: 1	
HMWGW79	646280	8109	54 - 377	17861	Thr-1 to Lys-12, Thr-68 to Arg-89.	L0439: 2, H0341: 1 and L0748: 1.	
HMWGQ48	861114	8110	185 - 424	17862	Thr-46 to Ile-55.	AR050: 43, AR054: 39, AR051: 38 H0341: 1	
HMWGI79	774806	8111	462 - 262	17863	Arg-18 to His-27.	H0341: 1	
	774828	9694	79 - 285	19446	Glu-7 to Ser-12, Lys-58 to Gly-64.		
HMWGH30	455037	8112	268 - 119	17864		H0341: 1 and L0475: 1.	
	692606	9695	116 - 310	19447	Asp-4 to Ser-14, Lys-41 to Asp-48.		
HMWGE06	935593	8113	133 - 345	17865		H0341: 1 and L0776: 1.	
HMWFY93	506636	8114	170 - 448	17866		H0341: 1 and L0439: 1.	
HMWFN80	573608	8115	98 - 205	17867		H0341: 1	
HMWFN37	861123	8116	58 - 441	17868	Pro-61 to Ala-71, Gly-86 to Asp-92.	H0341: 1, L0070: 1 and L0759: 1.	

HMWFN32	573603	8117	138 - 308	17869	Ala-9 to Ser-14.	H0341: 1
HMWFI18	666681	8118	197 - 346	17870		H0341: 1 and L0748: 1.
HMWFG88	592078	8119	46 - 357	17871	Trp-7 to Leu-14.	H0341: 1 and L0748: 1.
HMWFD86	785629	8120	122 - 412	17872	Asn-4 to His-10, Gly-18 to Leu-34, Ala-48 to Trp-54.	H0341: 1 and L0766: 1.
HMWFD68	861124	8121	3 - 161	17873	His-1 to Asp-6.	L0749: 2 and H0341: 1.
HMWFC64	573596	8122	120 - 323	17874	Gly-24 to His-41.	H0341: 1
HMWET56	812712	8123	2 - 259	17875	Ser-1 to Ser-8.	H0341: 1
HMWEQ52	728535	8124	62 - 274	17876	Ala-28 to Gly-34.	H0341: 1 and L0766: 1.
HMWEN61	909931	8125	2 - 322	17877	Glu-6 to Gly-11, Asp-61 to Asn-68, Glu-93 to Asn-102.	AR051: 21, AR054: 15, AR050: 1 H0341: 1
HMWEL56	733583	8126	3 - 263	17878	Gln-20 to Ala-35.	H0341: 1 and L0756: 1.
HMWEI53	861141	8127	3 - 137	17879	Lys-1 to Leu-16.	H0341: 1 and L0740: 1.
HMWEA91	790331	8128	66 - 539	17880	Ser-2 to Cys-15.	L0743: 2, L0777: 2, H0341: 1 and L0740: 1.
HMWEA10	968105	8129	2 - 235	17881	His-8 to Asp-22.	L0777: 2 and H0341: 1.
HMWDZ25	678724	8130	2 - 163	17882		H0341: 1 and L0748: 1.
HMWDR15	660522	8131	1 - 417	17883	Asp-1 to Ile-32, Pro-34 to Pro-39, Leu-43 to Arg-48, Glu-71 to Thr-82, Pro-95 to Pro-102, Glu-114 to Lys-124.	H0341: 1 and L0754: 1.
HMWDP06	935903	8132	18 - 110	17884		H0341: 1
HMWDN60	974425	8133	61 - 375	17885	Pro-6 to Gly-11, Gly-54 to Arg-62.	L0756: 2 and H0341: 1.
HMWDH55	732304	8134	98 - 310	17886	Pro-21 to His-38.	L0749: 2 and H0341: 1.
HMWCT43	715575	8135	130 - 414	17887		H0341: 1 and L0748: 1.
HMWCR88	955258	8136	92 - 190	17888	Phe-9 to Cys-17.	L0756: 2 and H0341: 1.
HMWCH47	720581	8137	112 - 261	17889		H0341: 1 and L0439: 1.
HMWCH04	615628	8138	2 - 130	17890	Ile-26 to Ser-33.	L0740: 2 and H0341: 1.
HMWCG38	851630	8139	249 - 494	17891	Gly-1 to Lys-8, Ser-30 to Leu-43, Glu-68 to Gly-77.	H0341: 1 and L0748: 1.

HMWBZ89	787111	8140	1 - 207	17892	Thr-18 to Lys-24.	H0341: 1 and L0748: 1.
HMWBT59	893995	8141	3 - 287	17893	Pro-59 to Trp-72.	AR054: 37, AR050: 34, AR051: 33, AR089: 5, AR061: 4 H0341: 1
HMWBT05	932558	8142	218 - 379	17894		L0740: 2, H0341: 1, L0761: 1, L0517: 1 and L0744: 1.
HMWBI77	888862	8143	3 - 404	17895		AR054: 18, AR051: 15, AR050: 2 H0341: 1
HMWBI40	712730	8144	393 - 617	17896		H0341: 1 and L0439: 1.
HMWBH29	927321	8145	2 - 499	17897		L0749: 2, H0341: 1, L0775: 1 and L0439: 1.
HMWBG16	859404	8146	2 - 202	17898	Pro-9 to Gly-18.	H0341: 1
HMWBB42	714114	8147	310 - 423	17899	Gln-3 to Ser-8.	H0341: 1 and L0748: 1.
HMWAJ04	586507	8148	27 - 395	17900	Val-1 to Leu-19, Pro-23 to Thr-29, Thr-34 to Thr-39, Pro-45 to Asn-54, His-61 to Trp-70.	AR051: 120, AR050: 118, AR054: 100 H0341: 1
HMVDZ11	966351	8149	2 - 145	17901		S0212: 1, L0744: 1 and L0596: 1.
HMVDV55	811616	8150	3 - 245	17902		L0439: 2, S0212: 1 and L0748: 1.
HMVDQ02	919057	8151	209 - 355	17903		S0212: 1, L0774: 1 and L0589: 1.
HMVDL45	717384	8152	341 - 655	17904	Ser-1 to Gln-17, Tyr-48 to Ser-64, Asp-69 to Lys-84.	L0438: 2, L0439: 2 and S0212: 1.
HMVDJ60	877124	8153	398 - 661	17905	Glu-29 to Ile-36, Arg-47 to Ser-54, Arg-62 to Ser-67.	S0212: 1, L0756: 1 and L0731: 1.
HMVDE10	861184	8154	247 - 462	17906		S0212: 1 and L0759: 1.
HMVCY89	786651	8155	352 - 471	17907		L0748: 5 and S0212: 1.
HMVCY14	657801	8156	1 - 474	17908		L0748: 3 and S0212: 1.
HMVCG26	681174	8157	119 - 340	17909	Asp-21 to Leu-27.	S0212: 1, L0471: 1 and

HMVBY77	771974	8158	422 - 577	17910	Asn-2 to Asp-9.	L0754: 1.		
HMVBV16	661692	8159	318 - 461	17911		S0212: 1 and L0439: 1.		
HMVBU89	786118	8160	213 - 452	17912	Tyr-22 to Thr-27.	S0212: 1, L0790: 1, L0749: 1 and L0777: 1.		
HMVBO83	780366	8161	494 - 736	17913	Ala-47 to His-52.	S0212: 1 and L0439: 1.		
HMVBJ91	790025	8162	94 - 219	17914	Phe-23 to Ala-28.	L0747: 2 and S0212: 1.		
HMVBF52	726546	8163	3 - 215	17915		S0212: 1 and L0754: 1.		
HMVBF44	716410	8164	264 - 386	17916		S0212: 1 and L0757: 1. / L0749: 2 and S0212: 1.		
HMVAT54	888180	8165	86 - 562	17917	Thr-13 to Trp-20, Gly-52 to Leu-59, Gln-138 to Thr-143.	S0212: 1 and L0769: 1.	16p12-p11	108730, 147781, 172471, 186580, 266600, 600760, 600760, 600761, 602066
HMVAT52	726515	8166	39 - 428	17918	Thr-10 to Cys-25, Ser-39 to Asp-47.	S0212: 1 and L0754: 1.		
HMVAP56	732985	8167	146 - 304	17919	Ser-31 to Ser-43.	L0439: 2, S0212: 1 and L0594: 1.		
HMVAF71	761400	8168	2 - 145	17920		S0212: 1 and L0439: 1.		
HMVAF52	861210	8169	1 - 378	17921	Ile-46 to Ile-51.	S0212: 1 and L0754: 1.		
HMVAC67	751600	8170	527 - 811	17922		L0748: 2 and S0212: 1.		
HMSPH53	861245	8171	2 - 307	17923	Ser-67 to Trp-72.	S0426: 1 and L0783: 1.		
HMSPE04	926800	8172	2 - 250	17924		L0770: 2, L0588: 2, S0426: 1, L0803: 1 and L0602: 1.		
HMSPA30	861265	8173	365 - 189	17925		S0426: 1 and L0749: 1.		
HMSOO28	861287	8174	473 - 24	17926		S0426: 1 and L0565: 1.	10q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 602082
HMSOJ88	861292	8175	1 - 471	17927	Glu-9 to Glu-18, Asp-24 to Leu-29, Pro-98 to Ser-112, Ala-115 to Thr-121.	S0426: 1 and L0591: 1.		

HMSOJ01	915084	8176	500 - 775	17928	Pro-33 to Thr-39.	S0426: 1, L0662: 1, L0766: 1, L0748: 1, L0779: 1 and L0759: 1.
HMSOH03	922828	8177	212 - 397	17929		S0426: 1, L0438: 1 and L0439: 1.
HMSNP06	934161	8178	249 - 419	17930		S0426: 1 and L0769: 1.
HMSNG04	926845	8179	204 - 431	17931	Leu-1 to Lys-7, Cys-13 to Ser-23, Ser-25 to Gly-48, Thr-57 to Pro-65.	L0623: 1 and S0426: 1.
HMSMY10	963431	8180	39 - 191	17932	Ala-1 to Tyr-12, Pro-44 to Leu-51.	S0426: 1, L0748: 1 and L0749: 1.
HMSMW91	861336	8181	1 - 117	17933		S0426: 1 and L0749: 1.
HMSMW64	861338	8182	22 - 441	17934	Val-3 to Lys-9, Leu-32 to Gln-40, Glu-70 to Gly-83.	S0426: 1 and L0589: 1.
HMSMO59	861341	8183	148 - 495	17935	Arg-33 to Phe-41, Ser-62 to Lys-67.	L0596: 2 and S0426: 1.
HMSMN71	927097	8184	3 - 533	17936	Lys-1 to Glu-7, Gln-18 to Asp-33, Leu-44 to Leu-50, Thr-67 to Ala-82, Ser-90 to Ser-98, Leu-130 to Gln-135.	AR061: 7, AR089: 3 L0483: 1 and S0426: 1.
HMSMN26	861345	8185	2 - 136	17937	Gly-22 to Trp-29.	S0426: 1 and L0748: 1.
HMSLH07	953390	8186	1 - 96	17938		S0002: 1 and L0521: 1.
HMSKQ08	861372	8187	184 - 447	17939		S0002: 1
HMSKH24	495770	8188	372 - 268	17940	Pro-19 to Arg-27.	S0002: 1
	596892	9696	178 - 390	19448		
HMSIX84	783032	8189	338 - 496	17941	Asn-1 to His-10.	S0002: 1 and L0439: 1.
HMSJW48	852496	8190	674 - 1159	17942	Pro-52 to Ser-58, Cys-82 to Ala-87, Pro-104 to Ala-114, Pro-123 to Thr-128, Gly-144 to Gly-158.	S0002: 1
HMSJU80	775416	8191	231 - 395	17943	Lys-18 to Asp-24.	L0748: 3 and S0002: 1.

HMSJQ40	954003	8192	2 - 331	17944		S0002: 1
HMSJO72	465884	8193	49 - 270	17945	Leu-52 to Tyr-58.	S0002: 1 and L0748: 1.
HMSJO43	715274	8194	1 - 63	17946		S0002: 1
HMSJM02	920070	8195	351 - 1091	17947	Arg-33 to Thr-38.	S0002: 1 and L0597: 1.
HMSJL53	921263	8196	71 - 433	17948	Lys-13 to Ala-20, Gln-57 to Cys-65.	AR050: 30, AR051: 29, AR054: 23 S0002: 1
HMSJJ22	495774	8197	581 - 408	17949		S0002: 1
	855778	9697	353 - 613	19449	Tyr-28 to Gly-34.	
HMSJI78	772846	8198	170 - 421	17950		S0002: 1 and L0591: 1.
HMSJD56	868168	8199	219 - 446	17951		S0002: 1 and L0766: 1.
HMSIZ49	973806	8200	445 - 645	17952		S0002: 1
HMSIW04	465835	8201	585 - 749	17953		S0002: 1 and L0756: 1.
HMSIU74	765600	8202	270 - 377	17954		S0002: 1 and L0746: 1.
HMSIT32	699241	8203	322 - 492	17955		S0002: 1, L0517: 1 and L0756: 1.
HMSIT28	686663	8204	29 - 217	17956	Ser-29 to Leu-34, Arg-42 to Gly-51.	S0002: 1 and L0439: 1.
HMSIP20	669671	8205	169 - 300	17957	Gln-13 to Leu-18, Asn-29 to Arg-35.	S0002: 1 and L0599: 1.
HMSIP02	920079	8206	402 - 223	17958		S0002: 1 and L0749: 1.
HMSIK04	615218	8207	16 - 201	17959		S0002: 1 and L0766: 1.
HMSIB06	935151	8208	289 - 47	17960	Trp-1 to Asp-6.	S0002: 1 and L0749: 1.
	935272	9698	212 - 403	19450	Asn-3 to Trp-10.	
HMSHV11	967007	8209	28 - 153	17961	Tyr-1 to Asn-7.	S0002: 1 and L0605: 1.
HMSHU68	753038	8210	513 - 271	17962		S0002: 1 and L0757: 1.
HMSHU37	495778	8211	195 - 1	17963	Leu-40 to Gly-53, Arg-60 to Arg-65.	S0002: 1
	855786	9699	1 - 282	19451		
	855787	9700	344 - 514	19452		
HMSHT11	967068	8212	348 - 485	17964		L0476: 1 and S0002: 1.
HMSHO45	717808	8213	57 - 227	17965		S0002: 1 and L0745: 1.
HMSHJ09	709471	8214	359 - 736	17966		S0002: 1 and L0731: 1.
HMSHI61	741834	8215	111 - 341	17967	Thr-43 to Asp-49.	L0777: 2, S0002: 1, L0745: 1, L0746: 1 and L0750: 1.

HMSHG08	959461	8216	1 - 150	17968	Pro-11 to Ala-22, Thr-44 to Arg-50.	S0002: 1 and L0742: 1.
HMSHG06	935496	8217	194 - 349	17969	Thr-13 to Arg-24, Cys-40 to Lys-47.	S0002: 1 and L0758: 1.
HMSHE81	784966	8218	2 - 430	17970	Ala-4 to Tyr-11, Thr-26 to Pro-38, Ser-56 to Asp-64, Ser-70 to Ser-76.	AR089: 27, AR061: 8 S0002: 1 and L0754: 1.
HMSHE17	662265	8219	446 - 694	17971	Ser-11 to Thr-18.	AR050: 29, AR051: 29, AR054: 26
	847271	9701	418 - 606	19453	Pro-31 to Cys-40, Pro-42 to Glu-48.	L0748: 2 and S0002: 1.
HMSHD80	882700	8220	273 - 518	17972		S0002: 1
HMSHB81	777946	8221	424 - 636	17973	Thr-31 to Gly-38, Leu-43 to Asn-55.	L0750: 2 and S0002: 1.
HMSGX86	793163-	8222	3 - 158	17974	Ala-21 to Lys-28.	S0002: 1
HMSGF56	733562	8223	174 - 308	17975	Asp-1 to Asn-9, Leu-31 to Val-39.	L0748: 2 and S0002: 1.
HMSGF54	730823	8224	265 - 119	17976	Ser-41 to Arg-49.	S0002: 1 and L0362: 1.
HMSGF51	761922	8225	124 - 333	17977	Gln-20 to Ser-25, Glu-42 to Ile-52.	S0002: 1 and L0592: 1.
HMSGD24	677337	8226	14 - 136	17978		L0748: 2 and S0002: 1.
HMSGC85	783608	8227	266 - 21	17979	Lys-22 to His-38, Lys-48 to Arg-59.	S0002: 1, L0779: 1 and L0731: 1.
	881955	9702	275 - 514	19454	Lys-1 to Ala-10, Gln-53 to Thr-58.	
HMSFY63	745230	8228	184 - 315	17980		S0002: 1 and L0745: 1.
HMSFX73	888326	8229	97 - 2	17981	Gly-8 to Glu-18.	AR054: 44, AR050: 25, AR051: 19
HMSFS08	959773	8230	290 - 421	17982	Glu-1 to Tyr-7.	S0002: 1
HMSFR23	919890	8231	763 - 1002	17983	Gly-58 to Ala-64.	S0002: 1 and L0758: 1.
HMSFN08	959774	8232	1 - 282	17984		S0002: 1
HMSEN68	753635	8233	2 - 88	17985		S0002: 1 and L0794: 1.
HMSEN13	384695	8234	22 - 222	17986	Leu-1 to His-6.	S0002: 1

Clone							
HMSEN08	960147	8235	41 - 244	Gly-2 to Leu-13.	L0748: 3, S0002: 1 and L0601: 1.		
HMSEM34	706366	8236	97 - 333	Glu-5 to Arg-11, Arg-19 to Lys-25, Ser-61 to Gly-69.	S0002: 1 and L0748: 1.		
HMSEL64	842040	8237	73 - 198	Pro-18 to Thr-23, Arg-29 to Asn-34.	S0002: 1 and L0759: 1.		
HMSEG67	751865	8238	163 - 2	Arg-5 to Ser-10.	S0002: 1		
HMSDQ15	660654	8239	2 - 166	Glu-31 to Gln-36.	S0002: 1 and L0748: 1.		
HMSDL70	909997	8240	2 - 307	Pro-12 to Glu-21, Gln-29 to Ser-34.	S0002: 1 and L0741: 1.		
HMSDK10	968435	8241	3 - 164	His-1 to Ser-7.	S0002: 1 and L0756: 1.		
HMSDI34	559991	8242	2 - 154		S0002: 1		
HMSDG12	574950	8243	2 - 238		S0002: 1 and L0741: 1.	19p13.3	108725, 120700, 133171, 136836, 145981, 147141, 164953, 188070, 600957, 601238, 601846, 602216, 602477
HMSDG04	927804	8244	94 - 270		S0002: 1 and L0527: 1.		
HMSDB08	960260	8245	175 - 318	Tyr-15 to Asn-20.	S0002: 1 and L0805: 1.		
HMSDA81	778469	8246	1 - 183	Thr-12 to Ala-17.	S0002: 1 and L0752: 1.		
HMSCY01	921768	8247	1 - 240		S0002: 1 and L0748: 1.		
HMSCW45	723483	8248	3 - 242		L0758: 2, S0002: 1 and L0748: 1.		
HMSCT69	855855	8249	258 - 476		S0002: 1		
HMSCP73	764703	8250	183 - 368		S0002: 1 and L0766: 1.		
HMSCO63	855863	8251	238 - 444	Ser-25 to Pro-31, Ser-45 to Gln-54.	L0748: 2, S0002: 1 and L0762: 1.		
HMSCD07	954243	8252	3 - 161		S0002: 1 and L0592: 1.		
HMSBZ67	973737	8253	1 - 234	Asn-1 to Arg-7.	S0002: 1		
HMSBZ13	855866	8254	2 - 142		S0002: 1 and L0599: 1.		
HMSBY67	752145	8255	213 - 323	Gln-24 to Gly-36.	S0002: 1 and L0777: 1.		
HMSBW54	880721	8256	89 - 289	Leu-1 to Arg-7, Lys-34 to Lys-39.	S0002: 1 and L0766: 1.		

HMSBU24	678709	8257	194 - 475	18009	Asp-4 to Gly-14, Gln-16 to Cys-22, Arg-45 to Trp-56, Val-68 to Val-78.	L0603: 2 and S0002: 1.
HMSBO95	796724	8258	249 - 377	18010	His-18 to Glu-25.	S0002: 1 and L0749: 1.
HMSBM92	792970	8259	3 - 140	18011		S0002: 1
HMSBI82	780229	8260	3 - 188	18012	Tyr-39 to Trp-45.	S0002: 1
HMSBI56	733772	8261	3 - 68	18013	Asn-11 to Gln-17.	S0002: 1
HMSBH85	784576	8262	211 - 423	18014	Pro-50 to Cys-55.	S0002: 1 and L0600: 1.
HMSBH08	958802	8263	981 - 658	18015		S0002: 1
	958939	9703	451 - 122	19455		
HMSBH07	954457	8264	59 - 382	18016	Gly-30 to Lys-41, Asn-72 to Gly-80.	S0002: 1 and L0655: 1.
HMSBF92	582654	8265	489 - 253	18017		S0002: 1
	791382	9704	278 - 475	19456		
HMSBC31	960021	8266	207 - 434	18018	Pro-1 to Lys-14.	S0002: 1 and L0748: 1.
HMSBA43	715699	8267	43 - 261	18019		S0002: 1, L0766: 1 and L0748: 1.
HMSAV84	781872	8268	45 - 233	18020		S0002: 1 and L0748: 1.
HMSAV65	747792	8269	405 - 190	18021		S0002: 1
HMSAT76	842065	8270	2 - 172	18022	Arg-3 to Ala-15, Ala-26 to Trp-34, Gly-37 to Ser-43.	S0002: 1, L0439: 1 and L0779: 1.
HMSAQ95	796728	8271	18 - 152	18023	Phe-4 to Ser-11.	S0002: 1 and L0731: 1.
HMSAQ58	738495	8272	2 - 157	18024		L0740: 2 and S0002: 1.
HMSAP36	518062	8273	95 - 223	18025	Glu-20 to Glu-26.	S0002: 1
HMSAO42	714316	8274	74 - 187	18026		S0002: 1 and L0749: 1.
HMSAH80	781640	8275	71 - 310	18027	Arg-8 to Arg-14, Arg-26 to Thr-33, Ser-50 to Trp-55.	S0002: 1 and L0748: 1.
HMQDV06	936015	8276	11 - 415	18028	Thr-18 to Gln-26, Pro-44 to Gln-49, Thr-55 to Lys-60, Arg-100 to Asn-107, Pro-115 to Glu-122.	H0250: 1, L0761: 1 and L0800: 1.
HMQDQ42	457221	8277	1 - 294	18029	Leu-12 to Asp-18,	H0250: 1 and L0748: 1.

HMQDL40	711421	8278	121 - 255	18030	Cys-62 to Ser-72.	H0250: 1 and L0749: 1.
HMQCZ36	708066	8279	162 - 386	18031	Ala-1 to Ser-7, Pro-29 to Gly-39.	L0748: 2 and H0250: 1.
HMQCZ18	574068	8280	1 - 297	18032		H0250: 1 and L0743: 1.
HMQCX42	712966	8281	57 - 266	18033		L0748: 2 and H0250: 1.
HMQCV29	974683	8282	2 - 499	18034	Pro-7 to Gln-20.	H0250: 1 and L0766: 1.
HMQCN17	385544	8283	124 - 288	18035		H0250: 1, L0779: 1 and L0591: 1.
HMQCM46	719201	8284	2 - 136	18036	Lys-6 to Lys-15.	H0250: 1
HMQCM41	711586	8285	2 - 115	18037	Ser-14 to Tyr-20.	H0250: 1
HMQCM05	932363	8286	40 - 171	18038		H0250: 1
HMQCH69	754188	8287	1 - 201	18039		H0250: 1 and L0756: 1.
HMQCH54	728851	8288	195 - 278	18040		L0747: 2 and H0250: 1.
HMQCB03	963370	8289	1 - 255	18041		L0498: 2 and H0250: 1.
HMQBN40	779856	8290	204 - 473	18042		H0250: 1 and L0777: 1.
HMPTA56	921233	8291	3 - 290	18043	Phe-1 to Gly-7, Lys-9 to Pro-23, Arg-65 to Ala-70, Leu-76 to Gln-82, Leu-90 to Pro-95.	H0109: 1
HMPTA28	685099	8292	171 - 284	18044	Pro-5 to Met-10.	H0109: 1
HMPSC38	709222	8293	97 - 330	18045		H0109: 1 and L0748: 1.
HMPBB84	781863	8294	163 - 345	18046	Glu-51 to Ser-57.	H0061: 1
HMOAD90	600400	8295	2 - 184	18047	Asp-11 to Glu-16, Asp-30 to Asn-39.	H0191: 1
HMOAD60	855919	8296	2 - 241	18048		AR054: 2, AR051: 2, AR050: 1 H0191: 1
HMMCL96	796276	8297	316 - 480	18049		L0748: 1 and H0444: 1.
HMMCI01	913715	8298	187 - 342	18050	Val-22 to Gly-29.	L0785: 1 and H0444: 1.
HMMCH69	754902	8299	2 - 112	18051		H0444: 1 and L0605: 1.
HMMCH09	625366	8300	287 - 595	18052	Gln-40 to Gly-46, Ser-72 to His-78, Pro-93 to Trp-99.	L0748: 1 and H0444: 1.

HMMCD83	875272	8301	315 - 440	18053	Thr-8 to Lys-20.	L0599: 2, L0369: 1 and H0444: 1.	
HMMCD23	675720	8302	1 - 276	18054		L0754: 1 and H0444: 1.	
HMMCA11	966677	8303	28 - 336	18055	Thr-10 to Gly-17, Ser-59 to Ala-66.	L0749: 1 and H0444: 1.	
HMMCA08	958980	8304	81 - 260	18056	Thr-31 to Asp-44.	L0532: 1 and H0444: 1.	
HMMBZ18	666192	8305	247 - 441	18057		L0748: 7, L0766: 3, L0749: 2, L0717: 1, L0527: 1, L0779: 1 and H0444: 1.	
HMMBZ05	566870	8306	75 - 401	18058	Pro-14 to Ser-20, Gln-80 to Trp-87.	AR051: 53, AR050: 53, AR054: 36	
	882446	9705	314 - 682	19457	Ser-3 to Thr-8.	L0759: 1 and H0444: 1.	
HMMBX01	916067	8307	100 - 270	18059		L0758: 1 and H0444: 1.	
HMMBV08	958987	8308	381 - 223	18060		L0769: 1 and H0444: 1.	
HMMBU13	597147	8309	222 - 344	18061		L0600: 2 and H0444: 1.	
HMMBT64	746399	8310	257 - 421	18062		L0748: 1 and H0444: 1.	
HMMBT30	841959	8311	305 - 583	18063	Ser-72 to Asn-77.	L0766: 1 and H0444: 1.	
HMMBT03	855930	8312	99 - 332	18064		H0444: 1	
HMMBQ08	958988	8313	117 - 281	18065	Pro-8 to Lys-15.	L0740: 1 and H0444: 1.	
HMMBO49	722753	8314	22 - 279	18066		L0754: 1 and H0444: 1.	
HMMBO28	686318	8315	1 - 147	18067		L0748: 1 and H0444: 1.	
HMMBN76	769890	8316	327 - 494	18068	Lys-1 to Ile-7.	L0748: 1, L0749: 1 and H0444: 1.	
HMMBN71	973436	8317	95 - 331	18069	Asn-72 to Leu-79.	H0444: 1	
HMMBN54	729352	8318	135 - 398	18070		L0748: 1 and H0444: 1.	
HMMBM83	781010	8319	19 - 192	18071		L0748: 1 and H0444: 1.	
HMMBL55	731523	8320	221 - 373	18072	Pro-8 to Lys-28, Ile-41 to Cys-48.	L0754: 1 and H0444: 1.	
HMMBH64	746402	8321	2 - 193	18073	Ser-23 to Glu-29, Pro-54 to Asp-63.	L0439: 1 and H0444: 1.	
HMMBF86	812597	8322	2 - 163	18074	Arg-20 to Trp-26, Ser-30 to Glu-43.	L0748: 1 and H0444: 1.	12
HMMBF72	761389	8323	165 - 317	18075	Lys-16 to Lys-51.	H0444: 1 and L0599: 1.	
HMMBF41	711731	8324	366 - 506	18076		H0444: 1 and L0581: 1.	

HMMAV44	716396	8325	183 - 338	18077	Lys-12 to Arg-18.	L0748: 2 and H0444: 1.
HMMAT23	973437	8326	3 - 305	18078	Arg-1 to Gly-7.	H0444: 1
HMMAT08	959005	8327	125 - 343	18079	Gln-19 to Leu-25.	H0444: 1 and L0599: 1.
HMMAS73	764280	8328	376 - 597	18080		L0756: 1 and H0444: 1.
HMMAR20	669523	8329	373 - 549	18081	Lys-22 to Gly-27.	L0748: 2 and H0444: 1.
HMMAQ70	757070	8330	324 - 413	18082		L0748: 1 and H0444: 1.
HMMAO06	935087	8331	453 - 656	18083	Pro-28 to Asn-33, Phe-46 to Gly-52, Thr-61 to Asn-67.	L0638: 1 and H0444: 1.
HMMAL71	760206	8332	159 - 425	18084	Pro-79 to Ile-84.	H0444: 1
HMMAL69	754908	8333	213 - 365	18085	Pro-12 to Gln-19.	L0749: 1, H0444: 1 and L0605: 1.
HMMAL59	738982	8334	246 - 404	18086	Arg-1 to Glu-7.	H0444: 1
HMMAL54	729351	8335	241 - 357	18087	Glu-2 to Gly-7.	H0444: 1
HMMAL44	716407	8336	144 - 320	18088	Thr-9 to Trp-19.	L0662: 1, L0749: 1 and H0444: 1.
HMMAL42	713542	8337	34 - 183	18089	Lys-24 to Val-30, Thr-44 to Arg-49.	H0444: 1
HMMAL35	707278	8338	97 - 303	18090	Lys-1 to Gln-6, Ser-27 to Lys-43, Glu-50 to Lys-62.	L0529: 1 and H0444: 1.
HMMAL30	693545	8339	6 - 80	18091		H0444: 1
HMMAL18	665512	8340	174 - 356	18092		H0444: 1
HMMAL16	661699	8341	296 - 412	18093	Ser-1 to Lys-32.	H0444: 1
HMMAK83	781016	8342	193 - 345	18094	Pro-20 to Phe-25.	L0748: 3, L0749: 1 and H0444: 1.
HMMAH61	741662	8343	142 - 321	18095		L0748: 1 and H0444: 1.
HMMAF92	973971	8344	265 - 459	18096		H0444: 1
HMMAF34	842015	8345	297 - 479	18097		L0762: 1 and H0444: 1.
HMMAE45	720838	8346	55 - 351	18098		L0748: 4, L0367: 1, L0747: 1 and H0444: 1.
HMMAE16	856007	8347	117 - 344	18099	Ser-23 to Cys-31.	L0754: 1 and H0444: 1.
HMMAB96	826488	8348	285 - 563	18100		H0444: 1
HMCIW93	897377	8349	1 - 306	18101	Arg-1 to Gly-16, Thr-30 to Ser-42.	S0344: 1

HMCHZ77	771795	8350	2 - 346	18102		AR061: 8, AR089: 5 S0344: 1 and L0748: 1.
HMCHS34	703691	8351	127 - 273	18103	Arg-18 to Gly-23.	L0748: 3 and S0344: 1.
HMCHK58	752431	8352	580 - 419	18104		S0344: 1 and L0601: 1.
HMCGX46	886903	8353	1 - 426	18105	Glu-25 to Asn-32, His-49 to Asn-57.	AR051: 24, AR050: 18, AR054: 10 S0344: 1
HMCGV66	787512	8354	1 - 216	18106	Tyr-16 to Trp-25, Val-49 to Pro-54, Gln-62 to Leu-68.	S0344: 1 and L0747: 1.
HMCGF39	856222	8355	1 - 321	18107		L0455: 1, S0344: 1 and L0439: 1.
HMCFR57	734404	8356	161 - 358	18108		S0344: 1, L0748: 1 and L0756: 1.
HMCFM86	846578	8357	13 - 171	18109	Ser-30 to Gly-36.	S0344: 1 and L0748: 1.
HMCFM04	927002	8358	182 - 343	18110	Lys-16 to Trp-22, Gly-39 to Ala-50.	S0344: 1 and L0517: 1.
HMCDN93	791555	8359	185 - 322	18111	Arg-1 to Val-9.	S0142: 1, L0439: 1 and L0746: 1.
HMCDC70	757192	8360	98 - 373	18112	Thr-10 to Gly-17, Lys-21 to Pro-30, Pro-45 to Ser-55.	S0142: 1 and L0600: 1.
HMCAR04	925591	8361	225 - 563	18113	His-1 to Ile-14.	S0142: 1 and L0748: 1.
HMALZ77	856266	8362	2 - 343	18114	Asn-12 to Gln-17, Gly-25 to Ala-34, Lys-72 to Ser-78.	AR089: 1, AR061: 0 S0278: 1 and L0591: 1.
HMALK06	933960	8363	61 - 222	18115	Gly-31 to Leu-36.	S0278: 1 and L0456: 1.
HMAJZ39	751523	8364	2 - 280	18116	Glu-13 to Gln-19.	S0278: 1, L0438: 1 and L0604: 1.
HMAJL09	950168	8365	2 - 493	18117	Tyr-30 to Ser-35, Arg-94 to Gly-100.	AR089: 0, AR061: 0 S0278: 1
HMAIU90	886821	8366	1 - 453	18118	Arg-41 to Ala-58, Ala-62 to Ser-71, Leu-88 to Gly-96.	AR051: 19, AR050: 17, AR054: 2 S0278: 1
HMAIQ20	669436	8367	94 - 303	18119	Asn-16 to Asp-21.	L0745: 2 and S0278: 1.
HMAIH15	956705	8368	534 - 268	18120	Ala-2 to Trp-7,	AR089: 1, AR061: 0

					Amino acid features	Library codes	Cytogenetic location	Accession numbers
					Pro-35 to Asp-46.	S0278: 1		
HMAIA55	899404	8369	89 - 877	18121	Pro-28 to Cys-34, Asn-153 to Gly-161, Ala-227 to Asn-233.	AR051: 37, AR061: 9, AR054: 6, AR089: 4, AR050: 1 S0278: 1		
HMAHP37	566344	8370	177 - 440	18122	Gln-17 to Gly-27.	S0278: 1		
HMAGT95	795686	8371	22 - 330	18123	Cys-44 to Ser-52, Arg-96 to Leu-103.	S0278: 1 and L0742: 1.		
HMAGS90	788683	8372	58 - 258	18124	Phe-4 to Leu-11, Pro-14 to Leu-20.	L0777: 2 and S0278: 1.		
HMAGI39	910152	8373	118 - 321	18125		L0776: 2 and S0278: 1.	19q13.4	134790, 191044, 600040, 600138
HMAFF71	760304	8374	2 - 550	18126		L0731: 2, S0144: 1 and L0750: 1.		
HMAFC96	796348	8375	32 - 448	18127	Arg-1 to Ser-13, Gly-24 to Pro-33, Ser-44 to Glu-50.	S0144: 1 and L0748: 1.	11p15.5	125852, 126452, 141900, 141900, 141900, 141900, 142000, 142200, 142250, 142270, 176730, 176730, 190020, 191290, 192500, 194071, 204500, 600856, 601680, 602631
HMAEK93	791549	8376	355 - 582	18128	Ser-24 to Lys-39, Trp-52 to Pro-58.	S0144: 1 and L0731: 1.		
HMADF74	944465	8377	144 - 1145	18129	Gly-5 to Glu-16, Gly-28 to Ser-34, Pro-186 to Pro-196, Ser-213 to Asn-219, Ser-249 to Ile-267.	AR089: 12, AR061: 8, S0144: 1		
HMACZ84	975349	8378	147 - 353	18130	His-7 to Phe-13.	S0144: 1.		

HMACV54	922354	8379	421 - 170	18131	Thr-50 to Phe-62, Pro-69 to His-75.	AR089: 21, AR061: 16 S0144: 1 and L0767: 1.
HMABT55	753560	8380	27 - 275	18132		S0144: 1 and L0756: 1.
HMABD66	388074	8381	138 - 383	18133		AR061: 0, AR089: 0 S0144: 1
HLYHN64	970747	8382	26 - 397	18134		L0748: 3 and H0445: 1.
HLYHN40	710825	8383	125 - 256	18135	Gly-14 to His-20.	L0745: 1 and H0445: 1.
HLYHL55	731447	8384	213 - 443	18136		L0754: 1 and H0445: 1.
HLYHK64	746310	8385	87 - 215	18137	Asn-25 to Ile-30.	L0744: 1, L0748: 1 and H0445: 1.
HLYHK61	932994	8386	1 - 549	18138	Lys-61 to Ser-68, Ser-91 to Lys-96.	L0747: 2, L0748: 1, L0750: 1 and H0445: 1.
HLYHK34	703776	8387	298 - 519	18139	Lys-37 to Lys-71.	AR089: 1, AR061: 1 L0766: 1, L0754: 1 and H0445: 1.
HLYHJ37	708625	8388	257 - 421	18140	Pro-16 to Ser-22, Ala-32 to Lys-39.	L0439: 1 and H0445: 1.
HLYHJ02	919201	8389	232 - 444	18141	Ile-17 to Ser-23, Gln-39 to Ser-57.	L0758: 1 and H0445: 1.
HLYHI05	953925	8390	424 - 20	18142	Asn-98 to Tyr-105, Lys-130 to His-135.	L0766: 1 and H0445: 1.
HLYHF62	743058	8391	89 - 277	18143	Asn-13 to Glu-18.	H0445: 1 and L0361: 1.
HLYHE85	784140	8392	294 - 506	18144	Ser-18 to Cys-33, Asn-36 to His-42.	L0766: 1 and H0445: 1.
HLYHA48	721372	8393	170 - 466	18145	Asn-1 to Pro-8, Leu-58 to Gln-64.	L0766: 5 and H0445: 1.
HLYHA04	614848	8394	83 - 229	18146	Ser-17 to Gly-22.	L0748: 2 and H0445: 1.
HLYGZ71	760115	8395	275 - 613	18147	Gly-8 to Leu-13, Pro-46 to Val-51, Leu-56 to Arg-64, Val-100 to Gln-110.	L0761: 1 and H0445: 1.
HLYGZ11	966503	8396	194 - 430	18148		L0598: 1, L0648: 1 and H0445: 1.
HLYGY60	740081	8397	119 - 397	18149		L0748: 2, L0766: 1, L0439: 1, L0750: 1, L0755: 1, H0445: 1 and L0601: 1.

HLYGW95	795682	8398	110 - 373	Val-15 to Pro-20, Pro-41 to Leu-46, Leu-50 to Leu-57, Gly-63 to His-77, Ser-81 to Gly-87.	L0749: 1, L0777: 1 and H0445: 1.
HLYGR56	733123	8399	481 - 636		L0731: 1 and H0445: 1.
HLYGQ29	689972	8400	91 - 213	Lys-14 to Thr-25.	L0754: 2 and H0445: 1.
HLYGQ11	966539	8401	45 - 194		L0766: 1 and H0445: 1.
HLYGM76	769835	8402	235 - 450	Thr-13 to Glu-18, Lys-50 to Ile-55.	H0445: 1 and L0362: 1.
HLYGM08	958820	8403	110 - 3	Lys-6 to Tyr-36.	L0754: 1 and H0445: 1.
HLYGJ76	685240	8404	388 - 564		H0445: 1 and L0605: 1.
HLYGH51	871634	8405	162 - 464	Ser-68 to Ala-73.	AR089: 1, AR061: 0 L0748: 1 and H0445: 1.
HLYGD69	754841	8406	108 - 302	Ala-23 to Gly-28.	L0753: 1 and H0445: 1.
HLYGB38	709187	8407	19 - 279	Pro-65 to Gln-71.	L0748: 2 and H0445: 1.
HLYFW38	709185	8408	114 - 392	Leu-7 to Ser-12, Ile-21 to Ala-29, Ser-35 to Ser-41, Pro-43 to Tyr-48.	L0748: 2, L0749: 1 and H0445: 1.
HLYFU24	856392	8409	362 - 532		H0445: 1 and L0599: 1.
HLYFR17	859567	8410	271 - 582	Pro-59 to Pro-65.	L0747: 1 and H0445: 1.
HLYFP56	871637	8411	173 - 391	Ile-47 to Gln-73.	L0766: 3 and H0445: 1.
HLYFO29	690381	8412	308 - 496	Glu-42 to Ser-52.	H0445: 1 and L0596: 1.
HLYFE11	966519	8413	103 - 276	Gln-27 to Trp-42.	L0749: 1 and H0445: 1.
HLYFD51	725116	8414	3 - 548	Thr-4 to Met-17, Ser-21 to Tyr-27, Lys-40 to Asp-56.	L0157: 1, L0766: 1, L0439: 1 and H0445: 1.
HLYFC54	729299	8415	91 - 249		H0445: 1 and L0600: 1.
HLYEV46	889678	8416	213 - 443		L0788: 1 and H0445: 1.
	889804	9706	497 - 757		
HLYEV42	856395	8417	107 - 448	Ser-31 to Asn-37, Gln-46 to Cys-53.	L0748: 1 and H0445: 1.
HLYET54	729406	8418	281 - 556		L0748: 1 and H0445: 1.
HLYET48	721501	8419	310 - 429		L0439: 1 and H0445: 1.

425

HLYET17	662764	8420	1 - 141		L0748: 1 and H0445: 1.
HLYES45	717640	8421	296 - 643		L0439: 1 and H0445: 1.
HLYEP59	739151	8422	228 - 536		L0748: 2 and H0445: 1.
HLYEO83	781038	8423	214 - 477	Ser-79 to Ile-88.	L0596: 2 and H0445: 1.
HLYEO37	708623	8424	399 - 551	Thr-12 to Val-19.	L0748: 1 and H0445: 1.
HLYEL71	760220	8425	296 - 550	Arg-28 to Gln-36.	L0777: 1 and H0445: 1.
HLYED44	716430	8426	3 - 353	Lys-1 to Trp-7, Pro-31 to Ser-37, Pro-46 to Asn-61, Gly-81 to Thr-90.	L0753: 1 and H0445: 1.
HLYEC21	670678	8427	2 - 163	Cys-44 to Cys-50.	L0756: 1 and H0445: 1.
HLYEB11	966748	8428	85 - 351		L0748: 4 and H0445: 1.
HLYEA92	561537	8429	5 - 115	Asp-13 to Asp-18.	AR054: 16, AR050: 8, AR051: 1 H0445: 1
HLYEA86	488801	8430	135 - 326	Ser-9 to Ser-14, Phe-40 to Asn-45.	L0748: 1 and H0445: 1.
HLYEA70	943886	8431	1 - 423	Val-87 to Gln-93, Tyr-123 to Gln-130.	AR054: 15, AR050: 2, AR051: 1 H0445: 1
HLYEA49	722787	8432	33 - 161	Gln-21 to Ser-27.	H0445: 1 and L0599: 1.
HLYDY72	761359	8433	275 - 478		H0445: 1 and L0599: 1.
HLYDX40	856401	8434	94 - 450	Ser-56 to Asn-65, Lys-84 to Arg-91, Lys-114 to Ser-119.	L0740: 1 and H0445: 1.
HLYDV57	800224	8435	72 - 152	Leu-1 to Arg-6.	L0745: 1 and H0445: 1.
HLYDU14	658035	8436	281 - 445	Ser-47 to Gly-52.	L0748: 1 and H0445: 1.
HLYDT27	856405	8437	262 - 453	Leu-58 to Arg-64.	L0758: 2 and H0445: 1.
HLYDT09	972424	8438	160 - 411	Asp-58 to Ser-65.	H0445: 1
HLYDQ75	767176	8439	203 - 502	Gln-15 to Leu-36, Lys-78 to Thr-85.	L0749: 1 and H0445: 1.
HLYDO45	717079	8440	3 - 224		L0518: 5, L0748: 1 and H0445: 1.
HLYDK95	973370	8441	140 - 376	His-10 to Glu-16, Ser-23 to Cys-30.	H0445: 1
HLYDI03	923826	8442	197 - 388	Pro-9 to Val-22,	L0041: 1 and H0445: 1.

HLYDG74	939025	8443	134 - 481	18195	Pro-31 to Gly-43.	L0438: 1, L0439: 1 and H0445: 1.		
HLYDG42	713579	8444	213 - 368	18196		L0748: 1 and H0445: 1.		
HLYDF07	952940	8445	120 - 290	18197		L0761: 1 and H0445: 1.		
HLYDD60	740212	8446	39 - 125	18198	Asn-15 to Asp-29.	L0766: 1 and H0445: 1.		
HLYDB08	959076	8447	20 - 160	18199	His-1 to Gly-9, Thr-13 to Trp-18, Asn-21 to Glu-26.	L0749: 1 and H0445: 1.		
HLYCX70	757087	8448	257 - 604	18200	Ala-8 to Ser-14, Pro-64 to Arg-69.	L0748: 3 and H0445: 1.		
HLYCX34	703910	8449	39 - 227	18201		L0748: 1 and H0445: 1.		
HLYCX18	943714	8450	2 - 412	18202	Arg-7 to Arg-16.	AR061: 113, AR089: 106 L0777: 1 and H0445: 1.		
HLYCX02	919563	8451	1 - 138	18203	Ser-29 to Gly-40.	L0731: 1 and H0445: 1.		
HLYCU59	679219	8452	229 - 405	18204	Thr-49 to Cys-58.	L0756: 2 and H0445: 1.	6p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
HLYCQ43	825509	8453	257 - 466	18205	Arg-64 to Arg-69.	H0445: 1		
HLYCP63	856424	8454	14 - 184	18206	Gly-15 to Thr-21.	L0523: 1 and H0445: 1.		
HLYCO03	923844	8455	157 - 387	18207	Glu-37 to Tyr-42.	L0777: 2, L0731: 2 and H0445: 1.		
HLYCM14	657589	8456	104 - 322	18208	Lys-7 to Arg-12, Phe-35 to Gly-54.	L0748: 1 and H0445: 1.		
HLYCL69	914887	8457	372 - 509	18209		L0748: 1 and H0445: 1.	4q11-q13	103600, 103600, 104150, 104150, 104500, 125490, 170650
HLYCF51	725067	8458	172 - 396	18210	Glu-16 to Ser-34.	L0769: 2, L0666: 1, L0748: 1, L0747: 1, L0749: 1 and H0445: 1.		
HLYCF37	949401	8459	1018 - 1341	18211	His-1 to Gly-23, Arg-43 to Leu-50, Pro-52 to Glu-59, Leu-77 to Lys-108.	AR089: 31, AR061: 5 H0445: 1		

HLYCC19	668745	8460	229 - 369	18212	Arg-23 to Ser-31, Thr-41 to His-46.	L0748: 1 and H0445: 1.
HLYCB86	785544	8461	106 - 204	18213		L0754: 1 and H0445: 1.
HLYCB11	967162	8462	76 - 258	18214		L0731: 3, L0779: 1, H0445: 1 and L0362: 1.
HLYBX91	790234	8463	587 - 778	18215		L0766: 3 and H0445: 1.
HLYBV44	485853	8464	80 - 193	18216	Glu-22 to Cys-31.	H0445: 1
	516686	9707	293 - 448	19459	Ser-1 to Gln-9, Arg-20 to Tyr-34.	
HLYBN17	463988	8465	150 - 317	18217		L0766: 3 and H0445: 1.
HLYBM44	715879	8466	14 - 328	18218		L0742: 1 and H0445: 1.
HLYBJ17	664101	8467	221 - 415	18219		H0445: 1 and L0599: 1.
HLYBH84	856444	8468	165 - 443	18220	Pro-67 to Ser-72, His-75 to Gln-86.	AR054: 14, AR051: 13, AR050: 0 H0445: 1
HLYBH68	586582	8469	220 - 486	18221	Thr-40 to Ser-57.	AR050: 18, AR054: 11, AR051: 5 H0445: 1
HLYBG85	783508	8470	1 - 246	18222	Asn-36 to Arg-46.	L0748: 1 and H0445: 1.
HLYBA50	880734	8471	2 - 232	18223	Thr-23 to Cys-39.	L0766: 2 and H0445: 1.
HLYBA06	935611	8472	295 - 441	18224		L0521: 1, L0766: 1 and H0445: 1.
HLYAX75	767225	8473	172 - 294	18225	Arg-25 to Leu-32.	H0445: 1
HLYAX32	699337	8474	129 - 200	18226	Thr-6 to Asp-19.	L0663: 1, H0445: 1 and L0599: 1.
HLYAU15	782335	8475	163 - 414	18227	Thr-25 to Ser-30.	L0748: 1, L0752: 1, L0758: 1 and H0445: 1.
HLYAS35	856469	8476	96 - 293	18228		H0445: 1 and L0592: 1.
HLYAR25	678179	8477	205 - 378	18229	Thr-52 to Lys-58.	L0777: 1 and H0445: 1.
HLYAQ92	792770	8478	169 - 303	18230	Asp-33 to Gln-40.	L0740: 1 and H0445: 1.
HLYAQ70	757235	8479	220 - 483	18231		L0748: 4 and H0445: 1.
HLYAQ69	754229	8480	1 - 267	18232	Thr-50 to Ile-85.	L0754: 1 and H0445: 1.
HLYAN68	815950	8481	182 - 337	18233		H0445: 1
HLYAN21	854034	8482	126 - 302	18234	Lys-6 to Ser-17.	H0445: 1
HLYAN10	964834	8483	369 - 521	18235		L0761: 1, L0517: 1, H0445: 1

HLYAL58	736097	8484	433 - 606	18236		1 and L0599: 1.
HLYAL22	856473	8485	214 - 456	18237	Ser-1 to Asp-6, Gly-60 to Gly-66.	L0439: 2 and H0445: 1.
HLYAL11	967173	8486	100 - 294	18238	Gln-35 to Phe-47, Glu-55 to Gln-64.	L0369: 1 and H0445: 1.
HLYAK36	708028	8487	192 - 356	18239		L0766: 1, L0606: 1 and H0445: 1.
HLYAK34	421604	8488	36 - 164	18240		L0749: 1, H0445: 1 and L0599: 1.
HLYAJ49	723039	8489	150 - 383	18241		L0745: 7, L0746: 3 and H0445: 1.
HLYAG59	888232	8490	157 - 441	18242	Ile-6 to Met-21.	L0483: 1, L0750: 1 and H0445: 1.
HLTHS37	708613	8491	205 - 432	18243	Asp-1 to Asn-15, Pro-31 to Gly-41.	AR051: 9, AR050: 3 H0445: 1
HLTHS02	856560	8492	23 - 217	18244	Phe-42 to Thr-49, Ile-51 to Ser-56.	L0748: 2 and H0591: 1.
HLTHC37	708620	8493	172 - 453	18245	Ser-21 to Glu-27, Asp-38 to Asn-45.	H0591: 1 and L0748: 1.
HLTGT83	780903	8494	23 - 199	18246		H0591: 1, L0659: 1 and L0439: 1.
HLTGT36	708027	8495	516 - 740	18247		H0591: 1 and L0439: 1.
HLTGS17	662409	8496	350 - 502	18248	Pro-5 to Asn-12.	L0796: 2, L0747: 2, H0591: 1 and L0791: 1.
HLTGR28	693990	8497	1 - 231	18249		H0591: 1 and L0748: 1.
HLTGP47	719975	8498	182 - 379	18250	Gln-36 to Arg-52.	H0591: 1 and L0748: 1.
HLTGO89	786674	8499	1 - 129	18251	Thr-24 to Ala-30.	H0591: 1 and L0604: 1.
HLTGN92	791185	8500	153 - 242	18252		H0591: 1 and L0439: 1.
HLTGA40	710728	8501	153 - 413	18253		L0748: 3 and H0591: 1.
HLTEZ30	960911	8502	209 - 331	18254	Leu-18 to Asp-33.	L0758: 2, H0591: 1 and L0439: 1.
HLTEZ19	671610	8503	2 - 172	18255	Ser-2 to Arg-7, Leu-48 to Trp-54.	L0748: 2 and H0090: 1.
HLTEX27	927578	8504	163 - 327	18256	Pro-27 to Asp-33.	L0748: 2, L0749: 2, H0090: 1, L0756: 1 and L0758: 1.
HLTEV66	772965	8505	1 - 192	18257	Lys-19 to Asn-38.	H0090: 1 and L0731: 1.

HLTEP45	723375	8506	289 - 426	18258	Arg-1 to Lys-12.	H0090: 1 and L0362: 1.		
HLTEM25	678685	8507	2 - 190	18259	Cys-3 to Lys-11, Ile-30 to Phe-36.	H0090: 1 and L0766: 1.		
HLTEG51	494330	8508	597 - 298	18260		H0090: 1		
	514122	9708	169 - 435	19460				
HLTEG37	417243	8509	2 - 253	18261	Ser-58 to Gly-64.	H0090: 1 and L0789: 1.		
HLTEC83	574630	8510	52 - 165	18262	Asp-5 to Gly-11.	H0090: 1		
HLTEC35	574632	8511	131 - 247	18263	Asn-13 to Pro-21.	H0090: 1		
HLTEA20	669900	8512	298 - 594	18264	Ser-14 to Pro-19.	L0749: 2, H0090: 1, L0438: 1 and L0758: 1.		
HLTDR43	715529	8513	3 - 140	18265	Tyr-8 to Leu-19.	L0438: 2, L0754: 2, H0090: 1, L0803: 1, L0352: 1 and L0439: 1.		
HLTDJ17	577379	8514	370 - 603	18266		H0090: 1, L0766: 1, L0745: 1, L0747: 1 and L0779: 1.		
HLTDH96	796560	8515	165 - 287	18267		H0090: 1 and L0748: 1.	22q13.31	250100, 250800, 250800
HLTDG59	739699	8516	68 - 352	18268		H0090: 1 and L0748: 1.		
HLTDG30	693329	8517	3 - 119	18269	Cys-10 to Pro-16, Glu-34 to Pro-39.	H0090: 1 and L0746: 1.		
HLTDB38	456860	8518	262 - 432	18270		L0748: 2 and H0090: 1.		
HLTCZ55	732385	8519	142 - 270	18271		H0090: 1 and L0758: 1.		
HLTCX39	705648	8520	1 - 336	18272		H0090: 1 and L0596: 1.		
HLTCT77	772458	8521	165 - 368	18273		H0090: 1 and L0745: 1.	1p21	102770, 120280, 120280, 166600, 170995, 232400, 232400, 600309, 601414, 601691, 601691, 601691, 601691, 601718, 602094
HLTCR77	772457	8522	154 - 303	18274		H0090: 1 and L0745: 1.		
HLTCR11	967559	8523	3 - 200	18275	Pro-54 to Lys-61.	H0090: 1 and L0363: 1.		
HLTCM59	442563	8524	2 - 208	18276		H0090: 1		
	739501	9709	26 - 241	19461	Lys-11 to Ser-16.			
HLTCI43	715530	8525	3 - 335	18277	Thr-16 to Arg-23,	H0090: 1 and L0439: 1.		

HLTCI11	967541	8526	152 - 295	Ser-35 to Leu-51, Arg-62 to Thr-75, Ser-80 to Ser-88.	H0090: 1, L0769: 1 and L0758: 1.
HLTCH41	507362	8527	93 - 365	Gln-1 to Ser-6, Gln-23 to Phe-31.	H0090: 1 and L0754: 1.
HLTBU47	720662	8528	235 - 354	Lys-9 to Leu-21, Asn-49 to Arg-55, Gly-62 to Ser-69.	H0090: 1 and L0748: 1.
HLTBU44	522741	8529	175 - 447	Lys-6 to Ser-13, Arg-29 to Arg-48, Val-50 to Ser-56.	H0090: 1
HLTBS07	954407	8530	2 - 106		H0090: 1 and L0659: 1.
HLTBF58	735194	8531	157 - 354		H0090: 1 and L0745: 1.
HLTBF56	907024	8532	302 - 526	Asn-36 to Arg-48.	L0766: 3 and H0090: 1.
HLTBA68	753857	8533	241 - 420	Tyr-1 to Lys-6.	L0439: 2, H0090: 1 and L0745: 1.
HLTBA41	712721	8534	273 - 491	Tyr-44 to Asn-52, Ser-64 to Gln-69.	L0748: 2, H0090: 1 and L0749: 1.
HLTBA35	707243	8535	124 - 378	Lys-17 to Ser-30, Gln-44 to Glu-52.	H0090: 1 and L0731: 1.
HLTAM07	954419	8536	3 - 215	Ser-7 to Pro-13.	H0090: 1, L0766: 1 and L0776: 1.
HLTAK57	735163	8537	1 - 90	Thr-24 to Ser-30.	H0090: 1 and L0756: 1.
HLTAA39	710361	8538	444 - 647	Cys-1 to Trp-6.	L0740: 2, H0090: 1, L0439: 1 and L0777: 1.
HLTAA27	684649	8539	3 - 92		L0754: 3 and H0090: 1.
HLMNU01	916641	8540	223 - 366		H0255: 1 and L0766: 1.
HLMNQ18	666544	8541	245 - 442		L0749: 3 and H0255: 1.
HLMMZ09	575837	8542	151 - 324	Gly-1 to Trp-17, Ala-51 to Tyr-58.	H0255: 1
HLMMT20	830074	8543	80 - 166		L0748: 2, H0255: 1, L0471: 1 and L0766: 1.
HLMMR90	575905	8544	1 - 522	Gly-1 to Ser-8, Leu-21 to Gly-30.	AR051: 30, AR050: 30, AR054: 20 H0255: 1 and L0599: 1.

HLMMK61	532605	8545	506 - 129	18297	Gln-9 to Trp-15, Thr-45 to Lys-50, Gln-61 to Leu-66, Trp-79 to Val-87.	AR051: 38, AR054: 35, AR050: 33 H0255: 1
	856817	9710	197 - 3	19462		
	856818	9711	3 - 263	19463	Cys-1 to Gly-8, Gln-13 to Trp-19, Thr-49 to Lys-54, Gln-65 to Leu-70.	
HLMMK50	724485	8546	1 - 207	18298		H0255: 1, L0534: 1 and L0757: 1.
HLMMF94	811320	8547	158 - 352	18299	Pro-9 to Lys-16.	H0255: 1 and L0754: 1.
HLMMF01	916816	8548	38 - 382	18300		H0255: 1 and L0766: 1.
HLMME43	714439	8549	198 - 542	18301	Ser-20 to Arg-25, Gly-51 to Leu-58, Leu-84 to Glu-90.	L0748: 4, H0255: 1, L0761: 1, L0768: 1 and L0747: 1.
HLMIY59	878870	8550	153 - 356	18302	Val-39 to Asn-49.	H0255: 1
HLMIG57	835799	8551	209 - 451	18303	Ala-6 to Glu-19, Ser-49 to Leu-56.	AR054: 19, AR050: 10, AR051: 2 H0255: 1 and L0754: 1.
HLMHW80	775382	8552	177 - 446	18304	Pro-1 to Lys-6, Gly-27 to Lys-42.	H0255: 1 and L0748: 1.
HLMHT61	742044	8553	246 - 398	18305		H0255: 1 and L0754: 1.
HLMHT49	722191	8554	253 - 411	18306		H0255: 1 and L0581: 1.
HLMHL66	910804	8555	1 - 252	18307	Pro-32 to Ser-39.	AR050: 11, AR054: 10, AR061: 6, AR089: 3, AR051: 3 H0255: 1
HLMHL03	856859	8556	183 - 1	18308	Lys-1 to Lys-15, Gln-50 to Arg-61.	H0255: 1 and L0603: 1.
HLMFU46	718075	8557	276 - 443	18309	Arg-14 to Arg-21.	H0255: 1 and L0747: 1.
HLMFL88	574812	8558	1 - 756	18310	Ala-61 to Glu-70, Pro-90 to Arg-98.	H0255: 1
HLMFG79	974552	8559	49 - 234	18311	Thr-23 to Gly-29.	H0255: 1
HLMFE91	531212	8560	3 - 434	18312		H0255: 1
HLMFE79	531213	8561	190 - 402	18313		H0255: 1

Clone	Number	SEQ ID	Range	Mutations	Codes	Chromosome	OMIM
HLMFE17	531218	8562	2 - 151		H0255: 1		
HLMFD62	754076	8563	140 - 289	Pro-2 to Ser-7, Glu-26 to Pro-31.	L0439: 3 and H0255: 1.		
HLMDX01	921546	8564	160 - 414		H0254: 1, L0748: 1 and L0777: 1.		
HLMDH08	960055	8565	1 - 258	Glu-13 to Ser-22, Ser-34 to Pro-39, Lys-50 to Gly-61, Leu-63 to Lys-68.	L0748: 4, L0770: 2, H0254: 1, L0749: 1, L0777: 1 and L0599: 1.		
HLMDC26	684911	8566	132 - 377	Gly-20 to Lys-32.	H0254: 1 and L0740: 1.		
HLMCL59	529908	8567	59 - 238	Glu-22 to Leu-31.	L0748: 2 and H0254: 1.		
HLMCJ55	741635	8568	3 - 344	Pro-14 to Gly-21, Asp-24 to His-30, Ala-36 to Ala-51.	H0254: 1, L0756: 1 and L0758: 1.		
HLMBX91	879359	8569	94 - 627	Pro-6 to Ser-15, Pro-87 to Arg-105, Gly-165 to Ala-170.	AR051: 13, AR054: 9, AR050: 3 H0255: 1		
HLMBQ54	730952	8570	94 - 369	Arg-9 to Ser-26, Cys-55 to Lys-60.	H0255: 1 and L0748: 1.		
HLMBQ48	560848	8571	175 - 336	Ser-39 to Arg-52.	H0255: 1		
	562006	9712	175 - 336	Ser-39 to Arg-52.			
HLMBN04	615620	8572	84 - 254		H0255: 1 and L0439: 1.		
HLMAV56	733708	8573	305 - 553		L0777: 2 and H0254: 1.		
HLMAI82	523694	8574	3 - 113		H0254: 1		
HLMAE86	852563	8575	88 - 291		H0254: 1, L0766: 1, L0755: 1 and L0731: 1.		
HLJCD85	783454	8576	3 - 527	Pro-2 to Asp-13, Pro-30 to Glu-37, Pro-56 to Lys-76, Lys-83 to Ile-98, Gly-105 to Ser-113, Gln-147 to Glu-152, Asp-154 to Lys-175.	H0354: 1, L0747: 1, L0750: 1 and L0591: 1.		
HLKDC76	953502	8577	157 - 867		H0611: 1, L0740: 1, L0593: 1 and L0601: 1.	19p13.1	143890, 151440, 600276, 600310, 600310,

HLKDB78	773172	8578	105 - 278	18330	Ser-30 to Arg-39.	L0439: 2, H0611: 1 and L0756: 1.	601604, 601843
HLKDB02	918870	8579	126 - 269	18331	Lys-19 to Arg-36.	H0611: 1 and L0605: 1.	
HLEAN30	843294	8580	161 - 328	18332	Tyr-1 to Tyr-6.	H0073: 1	
	886013	9713	235 - 633	19465	Phe-43 to Met-48, Phe-89 to Trp-95, Ser-118 to Thr-130.		
HLCDA67	887375	8581	1 - 633	18333		AR054: 3, AR089: 2, AR061: 2, AR051: 1, AR050: 1 H0607: 1	
HKBBV11	965170	8582	237 - 398	18334	Ser-1 to Val-6, Gln-23 to Trp-33, Phe-36 to Arg-41.	L0471: 1 and H0625: 1.	
HKBBP05	928316	8583	34 - 171	18335		H0625: 1, L0761: 1 and L0748: 1.	
HKBAL06	934160	8584	265 - 540	18336		L0535: 2, H0625: 1 and L0759: 1.	
HKBAJ12	969644	8585	273 - 497	18337		L0766: 5 and H0625: 1.	
HKBAB02	918568	8586	522 - 226	18338		H0625: 1 and L0764: 1.	
HJUBA59	888006	8587	170 - 478	18339	His-26 to Leu-34, Pro-41 to Thr-54, Asp-64 to Ser-69.	AR051: 97, AR050: 79, AR054: 77 L0748: 3, H0129: 1, L0438: 1, L0439: 1, L0747: 1, L0749: 1, L0756: 1 and L0777: 1.	
HJTRB51	470587	8588	428 - 252	18340		H0022: 1 and L0766: 1.	
	618324	9714	261 - 443	19466			
	724786	9715	269 - 463	19467	Ser-7 to Met-12.		
	724787	9716	367 - 534	19468			
HJPDK80	418622	8589	726 - 914	18341	Pro-16 to Ser-28.	L0766: 2, L0749: 2, H0083: 1, L0777: 1 and L0590: 1.	
HJPDK57	768274	8590	1 - 195	18342	Pro-51 to Ser-56.	H0083: 1	
	857395	9717	597 - 860	19469			
HJPDI16	518105	8591	13 - 237	18343	Pro-1 to Pro-17.	H0083: 1 and L0666: 1.	

434

HJPDE23	574115	8592	45 - 212		H0083: 1		
HJPDD82	857401	8593	475 - 639	Ser-30 to Asn-36.	L0748: 3, L0777: 2, H0083: 1, L0775: 1, L0744: 1, L0759: 1 and L0592: 1.		
HJPCW09	536677	8594	1 - 186		H0083: 1	1q32.1	134580, 145260, 600105, 600759, 601975
HJPCV54	733607	8595	129 - 434		H0083: 1 and L0751: 1.	17qter	
HJPCS54	871807	8596	473 - 619		H0083: 1 and L0750: 1.		
HJPBP22	577455	8597	2 - 145	Arg-39 to Arg-44.	H0083: 1	10q23-q24	157640, 174900, 180250, 186770, 236730, 271245, 278000, 278000, 600095, 600512, 601107, 601130, 601493, 602082
HJPBA04	615585	8598	172 - 423		H0083: 1 and L0608: 1.		
HJPAZ91	882668	8599	1 - 522	Ile-23 to Gly-28, Val-30 to Lys-35.	H0083: 1, L0740: 1, L0754: 1 and L0745: 1.		
HJPAY56	909242	8600	3 - 212		AR061: 4, AR089: 3 H0083: 1 and L0593: 1.		
HJPAX11	967599	8601	367 - 483		H0083: 1, L0803: 1 and L0748: 1.		
HJPAT79	781697	8602	2 - 325	Thr-4 to Thr-18, Leu-33 to Arg-43, Pro-66 to Gly-79.	H0083: 1 and L0731: 1.		
HJPAG38	709103	8603	222 - 371	Tyr-39 to Gly-44.	L0600: 3 and H0083: 1.		
HJPAA60	586675	8604	3 - 536	Ile-73 to Thr-80, Asn-125 to Gln-136.	AR054: 9, AR089: 1, AR050: 1, AR061: 1, AR051: 0 L0731: 2 and H0083: 1.		
HJKSC56	578366	8605	248 - 421		H0202: 1		
HJBDM21	793381	8606	60 - 383	Asn-54 to Gln-60, Phe-92 to Arg-98.	L0748: 2 and T0042: 1.		
HJBDL70	757378	8607	65 - 709	Phe-50 to Ser-58.	L0439: 2 and T0042: 1.		
HJBDG36	607769	8608	347 - 87	Pro-34 to Trp-46.	T0042: 1		

435

	857433	9718	1 - 222	19470		
	895313	9719	527 - 778	19471		
	902075	9720	1098 - 1544	19472		
HJBDC63	745286	8609	214 - 423	18361	Ile-1 to Arg-12, Arg-14 to Thr-19.	T0042: 1 and L0604: 1.
HJBDA11	967480	8610	470 - 700	18362	Leu-2 to Cys-13, Ser-32 to Cys-39.	L0777: 2, L0752: 2, T0042: 1, L0659: 1 and L0731: 1.
HJBCZ05	925805	8611	19 - 867	18363		T0042: 1 and L0740: 1.
HJBCM55	732411	8612	163 - 456	18364	Arg-1 to Pro-8, Ala-33 to Ala-39.	T0042: 1 and L0748: 1.
HJBBG54	728810	8613	415 - 570	18365	Leu-5 to Gly-10, Pro-31 to Cys-52.	L0777: 2 and T0042: 1.
HJBBF02	921242	8614	1 - 630	18366	Ile-1 to Ser-10, Gln-43 to Asp-49, Thr-118 to Thr-124, Ala-141 to Thr-146, Ser-155 to Glu-160.	L0599: 2, T0042: 1 and L0748: 1.
HJBBE51	725948	8615	86 - 244	18367	Thr-23 to Lys-31.	T0042: 1 and L0748: 1.
HJBBE07	954376	8616	325 - 471	18368		T0042: 1 and L0753: 1.
HJBBD59	739633	8617	61 - 240	18369	Pro-1 to Arg-10, Pro-13 to Arg-19.	L0439: 2 and T0042: 1.
HJBAP94	796835	8618	127 - 330	18370	Pro-22 to Pro-29.	L0591: 2, T0042: 1 and L0748: 1.
HJACI60	577525	8619	84 - 233	18371		T0041: 1, L0740: 1 and L0754: 1.
HJACH13	660943	8620	11 - 175	18372		L0439: 3, L0758: 3, L0779: 2, T0041: 1, L0771: 1, L0766: 1, L0803: 1, L0438: 1 and L0749: 1.
HJABZ11	967665	8621	242 - 448	18373	Val-1 to Ser-8.	L0759: 2 and T0041: 1.
HJABX39	709556	8622	189 - 656	18374	Pro-10 to Asn-16, Ser-63 to Glu-69, Ala-73 to Cys-79, Phe-83 to Thr-89, Trp-106 to Arg-120.	L0747: 2 and T0041: 1.
HJABQ75	567249	8623	498 - 836	18375	Ser-1 to Ala-10,	T0041: 1

					Leu-51 to His-71, Glu-79 to Gly-93.	
HJABK84	783237	8624	1 - 567	18376	Pro-10 to Glu-18, Leu-94 to Pro-100, Ser-106 to Asp-117, Thr-155 to Gly-162, Ser-169 to Val-178.	L0740: 4 and T0041: 1.
HJABK16	667399	8625	178 - 327	18377	Leu-2 to Asn-11, Glu-24 to Ser-32.	T0041: 1 and L0766: 1.
HJABB93	791435	8626	40 - 303	18378	Gln-1 to Gly-7, Pro-43 to Gln-61, Cys-68 to Trp-76.	L0748: 2, T0041: 1 and L0756: 1.
HJAAZ32	699727	8627	92 - 214	18379	Pro-8 to Ala-26.	T0041: 1, L0790: 1, L0748: 1, L0745: 1 and L0759: 1.
HJAAV85	783412	8628	76 - 183	18380		T0041: 1
HJAAR02	921105	8629	111 - 269	18381		T0041: 1 and L0784: 1.
HJAAO07	954263	8630	1 - 186	18382		T0041: 1 and L0385: 1.
HJAAC22	779388	8631	236 - 409	18383	Met-1 to Pro-7.	T0041: 1 and L0439: 1.
HJAAA83	928841	8632	241 - 432	18384	Lys-15 to Ser-29, Pro-34 to Pro-53.	L0777: 2, T0041: 1 and L0601: 1.
HILBQ12	971556	8633	247 - 360	18385		T0002: 1 and L0766: 1.
HILBC52	906873	8634	3 - 281	18386		L0748: 2 and T0002: 1.
HILBC17	667204	8635	25 - 285	18387		L0777: 2 and T0002: 1.
HHEZZ74	934486	8636	542 - 1630	18388	Glu-42 to Ser-70.	L0779: 2, L0800: 1, L0662: 1, L0740: 1, L0596: 1 and H0543: 1.
HHEZT12	969437	8637	1 - 177	18389	Gln-1 to Lys-8, Val-12 to Cys-17, Met-32 to Phe-38, Pro-40 to Tyr-45.	L0769: 1 and H0543: 1.
HHEZO92	942859	8638	1 - 546	18390	Val-18 to Trp-24, Ala-64 to Asp-69, Asn-88 to Arg-96, Ser-131 to Gly-137, Gly-150 to Thr-155, Gly-166 to Gly-174.	AR089: 15, AR061: 9 L0639: 1, L0748: 1, L0751: 1 and H0543: 1.

437

HHEZN61	973136	429 - 689	18391	Cys-8 to Pro-15, Pro-17 to Leu-23.	H0543: 1
HHEYE64	973232	329 - 601	18392	Trp-2 to Glu-7.	H0543: 1
HHEXO05	930794	972 - 1679	18393	Asp-14 to Glu-25, Tyr-109 to Pro-115, Pro-122 to Gly-127, Thr-142 to Lys-147, Leu-149 to Trp-164.	L0743: 2, L0750: 1, L0759: 1 and H0543: 1.
HHEWX08	974405	271 - 474	18394	Ser-51 to Pro-60.	H0543: 1
HHEWX06	933879	77 - 172	18395	Thr-18 to Ile-23.	L0785: 1, L0748: 1 and H0543: 1.
HHEWT49	973142	109 - 333	18396	Ser-23 to Ala-32, Gln-45 to Phe-52.	H0543: 1
HHEWS01	914746	241 - 414	18397		L0749: 1 and H0543: 1.
HHEWQ10	963039	2 - 121	18398	Gly-1 to Gly-6.	L0748: 1, L0749: 1 and H0543: 1.
HHEWM53	973150	170 - 382	18399	Leu-23 to Ser-35, Pro-66 to Ala-71.	H0543: 1
HHEWG06	933874	176 - 310	18400	Thr-13 to Phe-18, Asp-22 to Gly-29.	L0748: 1 and H0543: 1.
HHEVZ06	933891	2 - 193	18401	Asn-10 to His-15.	L0748: 1 and H0543: 1.
HHEUU76	906956	544 - 227	18402		L0439: 1 and H0543: 1.
HHEUP68	973215	308 - 622	18403	Glu-27 to Asp-33, Glu-44 to Leu-51, Thr-59 to Pro-74.	H0543: 1
HHEUL05	931045	376 - 483	18404	Leu-1 to Ser-6.	L0438: 1 and H0543: 1.
HHEUD79	774157	3 - 230	18405	Asn-50 to Gly-56.	L0754: 1, L0756: 1 and H0543: 1.
HHETR81	836730	2 - 718	18406	Gly-1 to Ser-6, Pro-8 to Lys-16, Arg-67 to Cys-84, His-99 to Tyr-107, Met-133 to Cys-138, Pro-164 to Lys-170, Thr-172 to Lys-178.	L0766: 1 and H0543: 1.
HHETP07	952217	209 - 364	18407	Gly-32 to Phe-39.	L0608: 1 and H0543: 1.

						17q11	147557, 600881, 601954
HHETN89	786361	8656	562 - 687	Glu-11 to Gly-16.	L0747: 1 and H0543: 1.		
HHETN03	923009	8657	306 - 485	Arg-55 to His-60.	L0659: 1 and H0543: 1.		
HHETK38	973120	8658	112 - 369	Arg-1 to Ala-10, Arg-37 to Ser-44, Ser-54 to Asn-61.	H0543: 1		
HHETH36	901275	8659	212 - 424	Gln-1 to Asp-30.	AR050: 13, AR054: 11, AR051: 3 H0543: 1		
HHESV83	780456	8660	3 - 122	Glu-1 to Gly-9.	H0543: 1		
HHESV71	806332	8661	1 - 225		H0543: 1		
HHESS93	791729	8662	281 - 436		L0756: 2, L0742: 1 and H0543: 1.		
HHEQV46	718640	8663	2 - 286	Lys-15 to Leu-27, Pro-29 to Trp-37, Lys-39 to Glu-54, Gly-61 to Ser-91.	L0766: 1, L0749: 1, L0755: 1 and H0543: 1.		
HHEQT07	952452	8664	1523 - 1738	Gly-8 to Lys-18, Gly-22 to Thr-28, Gly-49 to Ser-54, Gln-56 to Phe-63, Glu-65 to Arg-72.	L0763: 1 and H0543: 1		
HHEQP75	973104	8665	2 - 307	Arg-15 to Arg-21, Leu-54 to Ser-62, Ser-73 to Phe-81, Glu-91 to Lys-102.	H0543: 1		
HHEQL50	723930	8666	215 - 469		L0592: 1 and H0543: 1.		
HHEQK53	727812	8667	524 - 703		L0754: 2 and H0543: 1.		
HHEQH22	723305	8668	215 - 370	Thr-14 to Gly-23, His-29 to Phe-35.	L0764: 1, L0745: 1 and H0543: 1.	17q11	147557, 600881, 601954
HHEQC89	786603	8669	229 - 387	Lys-19 to Tyr-28.	L0766: 1 and H0543: 1.		
HHEQC26	679505	8670	344 - 466	Lys-31 to Val-40.	L0749: 1 and H0543: 1.		
HHEQB59	738866	8671	196 - 324	Lys-1 to Glu-11.	L0439: 1 and H0543: 1.		
HHEQB23	675500	8672	26 - 157		L0773: 1, L0748: 1 and H0543: 1.		
HHEPW95	588266	8673	2 - 181	Ser-52 to Arg-58.	H0543: 1		
HHEPW40	588265	8674	152 - 298		H0543: 1		

HHEPW11	966789	8675	161 - 322	18427		H0543: 1
HHEPT05	912266	8676	2104 - 2349	18428	Lys-25 to Gln-34.	L0439: 1 and H0543: 1.
	971711	9721	350 - 174	19473		
	971712	9722	307 - 414	19474		
	971713	9723	425 - 180	19475	Lys-25 to Gln-34.	
	971714	9724	288 - 61	19476	Phe-23 to Gln-48, Lys-56 to Gly-61.	
HHEPT03	923410	8677	41 - 355	18429	Ser-7 to Ser-14.	H0543: 1
HHEPN71	588241	8678	1 - 249	18430	Leu-53 to Trp-64.	L0752: 1 and H0543: 1.
HHEPM69	588235	8679	279 - 386	18431		H0543: 1
HHEPG62	877268	8680	179 - 361	18432	Glu-38 to Asn-44.	L0439: 2, L0777: 2, L0394: 1, L0438: 1, L0744: 1, L0754: 1, L0779: 1, L0753: 1, L0759: 1 and H0543: 1.
HHEPG59	925436	8681	274 - 474	18433	Phe-7 to Asn-14.	L0748: 1, L0747: 1 and H0543: 1.
HHEPF21	956241	8682	217 - 357	18434		L0803: 1 and H0543: 1.
HHEOG81	588155	8683	210 - 365	18435	Glu-19 to Asp-27.	L0755: 1 and H0543: 1.
HHEOA63	744995	8684	11 - 313	18436		L0748: 3 and H0543: 1.
HHENY02	919775	8685	206 - 373	18437	Ile-7 to Cys-13.	L0386: 1 and H0543: 1.
HHENW11	887661	8686	1 - 228	18438	Glu-26 to Lys-38, Ser-55 to Gln-63.	AR050: 71, AR054: 58, AR051: 53 H0543: 1
HHENQ08	959262	8687	68 - 259	18439	Thr-44 to Pro-55.	L0748: 2 and H0543: 1.
HHENK21	858290	8688	2 - 310	18440	Pro-44 to Ser-51.	L0763: 1 and H0543: 1.
HHENJ29	690576	8689	1 - 306	18441	Asp-4 to Gln-13, Val-22 to Gly-31, Glu-50 to Asp-63, Arg-70 to Asp-75, Ser-88 to Gly-94.	L0750: 1 and H0543: 1.
HHEND53	728111	8690	196 - 486	18442	His-54 to Ala-59, Ser-64 to Asn-70.	L0439: 1 and H0543: 1.
HHENC71	757844	8691	142 - 387	18443	Leu-70 to Ser-82.	L0747: 1 and H0543: 1.
HHEMZ66	586737	8692	2 - 364	18444	Pro-14 to Ala-29, Glu-50 to Thr-55.	AR050: 326, AR054: 257, AR051: 188 H0543: 1

HHEMW78	773507	8693	738 - 541	18445	Gln-42 to Met-64.	L0766: 1 and H0543: 1.	
HHEMV01	916281	8694	3 - 161	18446		L0748: 2 and H0543: 1.	
HHEMQ68	752326	8695	22 - 123	18447		H0543: 1	
HHEMQ48	493733	8696	287 - 111	18448	,	AR050: 99, AR054: 97, AR051: 82 H0543: 1	
	839526	9725	1 - 162	19477	Pro-22 to Glu-33.		
	887668	9726	1 - 216	19478	Thr-33 to Gly-40, Pro-59 to Leu-64, Thr-66 to Lys-72.		
HHEMN37	708468	8697	2 - 217	18449	Trp-1 to Ser-11.	H0543: 1	
HHEMK77	772115	8698	3 - 104	18450	Thr-6 to Asn-11, Thr-24 to Lys-34.	H0543: 1	
HHEMK26	681595	8699	120 - 470	18451	Pro-38 to Pro-44, Gln-65 to Ala-73.	H0543: 1	
HHEMJ91	789443	8700	233 - 445	18452	Lys-25 to Lys-34.	L0747: 4, L0439: 1, L0362: 1 and H0543: 1.	6p21.3-p21.2 106300, 108800, 120290, 120290, 120810, 120820, 142857, 142858, 150270, 167250, 170261, 177900, 179450, 201910, 217000, 222100, 233100, 235200, 248611, 256550, 600202, 600261, 601690, 601868, 602280, 602475
HHEMI69	755006	8701	371 - 174	18453	Pro-2 to Lys-12.	H0543: 1	
HHEMI56	469030	8702	257 - 66	18454	Gln-1 to Lys-13, Asp-54 to Asn-62.	H0543: 1	
HHEMI09	625459	8703	1 - 174	18455	Ser-27 to Gly-34, Ser-49 to Glu-54.	H0543: 1	
HHEMG02	917366	8704	325 - 122	18456		L0769: 1 and H0543: 1.	
HHEMG01	916297	8705	121 - 270	18457	Gln-23 to Val-33,	H0543: 1	

HHEMD56	733353	8706	2 - 292	18458	Gly-44 to His-50.	L0766: 1, L0748: 1 and H0543: 1.
HHEMC41	927255	8707	269 - 42	18459	Leu-12 to Ser-17.	L0747: 2, L0753: 2, L0731: 2, L0750: 1 and H0543: 1.
HHEMC10	969380	8708	309 - 596	18460	Val-14 to Gln-19.	AR050: 98, AR054: 85, AR051: 82, AR089: 28, AR061: 3 H0543: 1
HHEMA35	467295	8709	390 - 623	18461	Asn-1 to Glu-7, Ile-70 to Trp-82.	L0748: 1 and H0543: 1.
HHEMA07	953200	8710	190 - 369	18462	Thr-1 to Lys-9, Gln-60 to Pro-65.	L0439: 2, L0804: 1, L0777: 1, L0731: 1 and H0543: 1.
HHELA35	878217	8711	25 - 462	18463	Phe-62 to Arg-67, Gln-92 to Leu-104.	AR089: 1, AR061: 0 H0542: 1
HHEKZ12	878267	8712	9 - 395	18464	Phe-62 to Arg-67, Gln-92 to Leu-104.	AR089: 1, AR061: 0 H0542: 1
HHEKI70	955092	8713	39 - 215	18465	Phe-1 to Ser-8, Glu-45 to Met-53.	L0754: 1, L0747: 1 and H0542: 1.
HHEJR35	878223	8714	1 - 249	18466	Ser-16 to Gln-22.	L0745: 2 and H0542: 1.
HHEHK04	925717	8715	1 - 621	18467		L0777: 5 and H0542: 1.
HHEHG38	943785	8716	2 - 583	18468	Cys-12 to Gly-19, Gly-28 to Leu-35, Lys-37 to His-42.	AR061: 5, AR089: 4 L0779: 1, L0777: 1 and H0542: 1.
HHEGC05	930878	8717	124 - 258	18469	Gln-10 to Arg-17, Pro-34 to Tyr-45.	L0752: 1 and H0542: 1.
HHEFN76	767770	8718	1 - 267	18470		L0748: 2 and H0542: 1.
HHEFM41	711954	8719	580 - 738	18471	Lys-1 to Lys-8, Arg-22 to Leu-27.	L0586: 1 and H0542: 1.
HHEEY63	744592	8720	400 - 537	18472	Arg-1 to Arg-20, Tyr-31 to His-36.	L0759: 1 and H0542: 1.
HHEDN70	757106	8721	1 - 390	18473	Thr-63 to Phe-68, Asp-78 to Pro-85.	L0593: 1 and H0542: 1.
HHEDN51	734118	8722	205 - 354	18474	Gly-15 to Leu-21.	H0542: 1
HHEDN49	588136	8723	274 - 396	18475		L0369: 1 and H0542: 1.
HHEDI54	588129	8724	76 - 276	18476		L0749: 1 and H0542: 1.

HHEDB30	692086	8725	100 - 429	18477	Arg-1 to Gly-9, Gly-12 to Asn-21, Gly-32 to Pro-38.	L0750: 1 and H0542: 1.		
HHECT42	588098	8726	186 - 386	18478	Glu-13 to Glu-18, Pro-36 to Glu-59.	L0594: 2 and H0542: 1.		
HHECM62	934414	8727	148 - 330	18479		L0779: 2, L0596: 1 and H0542: 1.		
HHECA10	973228	8728	66 - 257	18480	Arg-35 to Gly-41.	H0542: 1		
HHEBQ68	752956	8729	3 - 200	18481	Ala-1 to Ala-6, Cys-34 to Gly-42, Cys-56 to Pro-61.	H0542: 1		
HHEBQ59	739216	8730	343 - 140	18482		H0542: 1		
HHEBO04	615127	8731	277 - 447	18483	Gln-28 to Leu-33.	H0542: 1		
HHEBM89	786088	8732	44 - 253	18484	Gln-44 to Leu-50, Tyr-52 to Lys-59.	H0542: 1	15q25	231680, 276700
HHEBM53	728087	8733	115 - 294	18485		H0542: 1		
HHEBJ08	858429	8734	163 - 435	18486		L0766: 2 and H0542: 1.		
HHEBB80	775424	8735	209 - 36	18487	Pro-15 to Arg-27, Pro-38 to Lys-51.	H0542: 1		
HHEBB22	858418	8736	85 - 300	18488	His-3 to Arg-9, Pro-15 to Glu-26, Ser-48 to Gly-61.	H0542: 1		
HHEBA86	785413	8737	1 - 138	18489	Pro-23 to Pro-34.	L0752: 1, L0731: 1, L0605: 1 and H0542: 1.		
HHEAL37	491205	8738	464 - 240	18490		H0542: 1		
	858421	9727	1 - 303	19479				
	858425	9728	100 - 261	19480	Cys-10 to Leu-16.			
HHEAJ78	773538	8739	2 - 313	18491	Leu-7 to Cys-14, Glu-22 to Glu-36, Gln-57 to Lys-63, Asp-85 to Leu-97.	L0361: 2 and H0542: 1.	7q21-q22	116860, 126650, 126650, 129900, 133170, 154276, 173360, 173360, 602136, 602136, 602136, 602447
HHEAF06	935355	8740	169 - 381	18492	Val-3 to Leu-8.	L0518: 4, L0599: 1 and H0542: 1.		
HHEAD08	959305	8741	536 - 736	18493	Ser-12 to Phe-18.	L0794: 4, L0651: 1 and		

Clone ID	Accession	ID	Range	SEQ ID	Residues	Clone references	Chromosome	Additional
						H0542: 1.		
HHEAC20	668948	8742	1 - 459	18494	Ser-16 to Gly-25, Asp-33 to Asn-42, Cys-72 to Ser-85, Glu-98 to Glu-106, Glu-114 to Gly-130.	H0542: 1		
HHEAA02	932265	8743	26 - 631	18495	Asn-1 to Gly-19, Ala-24 to Arg-30, Phe-53 to Arg-69, Gln-104 to Ser-110, Ser-116 to Thr-123.	L0593: 2 and H0542: 1.		
HFSBE12	970629	8744	132 - 317	18496		H0057: 1		
HFSBB12	971571	8745	424 - 218	18497		H0057: 1 and L0779: 1.		
HFSBB06	960835	8746	326 - 180	18498	Pro-14 to Ala-19.	L0766: 2 and H0057: 1.		
HFSAZ51	725973	8747	453 - 316	18499		L0749: 3, L0748: 2 and H0057: 1.		
HFSAX30	693419	8748	379 - 173	18500		H0057: 1 and L0756: 1.		
HFSAW27	684668	8749	132 - 1	18501		L0794: 2, H0057: 1, L0758: 1, L0758: 1 and L0581: 1.		
HFSAU89	785904	8750	444 - 238	18502	Thr-1 to Ala-7.	H0057: 1 and L0748: 1.		
HFSAU84	781861	8751	105 - 1	18503	Leu-16 to Cys-22.	H0057: 1 and L0749: 1.		
HFSAT96	504394	8752	239 - 60	18504	His-3 to Asp-15.	H0057: 1 and L0748: 1.		
HFSAT48	720843	8753	465 - 331	18505	Cys-4 to Phe-10, Lys-40 to His-45.	L0666: 2, L0747: 2, L0731: 2, H0057: 1, L0804: 1, L0791: 1, L0779: 1 and L0780: 1.		
HFSAS86	785851	8754	196 - 107	18506	Tyr-5 to Ser-11, Phe-13 to Asp-23.	L0777: 2, H0057: 1 and L0754: 1.	6p21	180297, 248611, 251000, 263200, 600211, 600701, 601690
HFSAR68	675246	8755	398 - 207	18507	His-1 to Ser-25, Asp-32 to Lys-44.	H0057: 1		
	826790	9729	140 - 319	19481				
HFSAP25	677463	8756	344 - 249	18508	Leu-4 to Ser-10, Thr-19 to Asn-24.	H0057: 1 and L0748: 1.		
HFSAK31	504424	8757	185 - 60	18509	Gln-18 to Tyr-31.	H0057: 1		

Clone				SEQ ID	Amino Acid	Identifiers	Chromosome	OMIM
HFSAK14	504431	8758	352 - 251	18510	Pro-5 to Ser-14.	L0748: 2 and H0057: 1.		
	504432	9730	72 - 209	19482	Lys-1 to Leu-9.	L0748: 2 and H0057: 1.		
HFSAI68	753858	8759	319 - 209	18511				
HFSAH34	526472	8760	697 - 524	18512		H0057: 1, L0775: 1, L0439: 1, L0740: 1 and L0747: 1.		
HFSAG03	960973	8761	496 - 320	18513	Glu-33 to Thr-45, Arg-50 to Ser-59.	AR089: 18, AR061: 11 H0057: 1, L0520: 1 and L0389: 1.		
HFSAF53	728528	8762	314 - 96	18514		H0057: 1 and L0588: 1.		
HEOQI52	850966	8763	21 - 323	18515		H0457: 1, L0521: 1, L0766: 1 and L0581: 1.		
HEOPY91	933173	8764	132 - 314	18516	Ala-21 to Ala-34, Ser-38 to Gln-50.	H0457: 1 and L0366: 1.		
HEOOA49	942561	8765	1 - 576	18517	Leu-42 to Asp-50, Pro-94 to Ala-100, Ser-169 to Gly-174.	AR089: 6, AR061: 2 H0457: 1		
HEONX61	741864	8766	2 - 235	18518		H0457: 1 and L0748: 1.		
HEONO64	746660	8767	158 - 427	18519		L0748: 3 and H0457: 1.		
HEONO59	741361	8768	325 - 756	18520		AR089: 5, AR061: 3 H0457: 1 and L0752: 1.		
HEONN02	840210	8769	64 - 225	18521		H0457: 1 and L0740: 1.	2p22-p21	120435, 120435, 126600, 135300, 136435, 152790, 152790, 157170, 182601, 278300, 601071, 601771, 602134
HEONL19	575884	8770	170 - 325	18522		H0457: 1		
HEONL09	961147	8771	3 - 155	18523	Glu-30 to Lys-50.	H0457: 1		
HEONL06	935516	8772	244 - 414	18524		H0457: 1		
HEONK37	707505	8773	62 - 313	18525	Ser-1 to Asn-9.	L0754: 2 and H0457: 1.		
HEONK10	964757	8774	90 - 206	18526		H0457: 1 and L0747: 1.		
HEONJ18	575888	8775	30 - 338	18527	Arg-10 to Asp-15, Gly-33 to Gln-40, Ser-42 to Cys-49, Arg-60 to Asn-66,	H0457: 1		

HEONI92	792772	8776	330 - 602	18528	Gln-81 to Ala-87.	H0457: 1 and L0603: 1.
HEOMX03	922962	8777	361 - 552	18529	Asp-1 to Ser-9.	H0457: 1
HEOMX01	913683	8778	2 - 559	18530	Val-8 to Arg-18, Glu-40 to His-46, Pro-62 to Cys-69, Ser-105 to Ser-115, Pro-124 to Pro-129, Pro-139 to Ser-145, Ser-163 to Ser-169.	H0457: 1
HEOMV61	506231	8779	3 - 326	18531	Pro-51 to Ser-65.	H0457: 1
HEOMQ68	753075	8780	96 - 218	18532	Lys-1 to Phe-11.	H0457: 1 and L0599: 1.
HEOMQ04	931032	8781	2 - 172	18533		L0756: 2 and H0457: 1.
HEOML91	667931	8782	63 - 290	18534		H0457: 1
HEOML76	575927	8783	93 - 224	18535	His-7 to Gln-12, Pro-14 to Lys-21.	H0457: 1
HEOMH63	745146	8784	80 - 256	18536		H0457: 1 and L0745: 1.
HEICC56	733383	8785	2 - 100	18537	Pro-1 to Gly-9, Arg-23 to Gln-33.	S0140: 1
HEIBB84	781994	8786	2 - 406	18538		L0745: 2 and S0140: 1.
HEIBB31	697987	8787	2 - 142	18539	Leu-29 to Ser-35.	S0140: 1 and L0777: 1.
HEIBA15	888667	8788	197 - 427	18540		AR050: 12, AR051: 10, AR054: 10 S0140: 1
HEIAX24	677177	8789	181 - 360	18541	Leu-7 to Gly-12, Glu-23 to Cys-29.	S0140: 1
HEIAX11	967272	8790	2 - 289	18542	Thr-47 to Asn-55.	S0140: 1 and L0640: 1.
HEIAU39	861503	8791	1 - 366	18543	Lys-1 to Ser-7, Phe-31 to Arg-43.	L0534: 1, S0140: 1, L0794: 1, L0790: 1 and L0791: 1.
HEIAR07	953626	8792	186 - 410	18544	Ser-1 to Arg-14, Asp-27 to Gly-32, Gly-42 to Ala-48, Leu-65 to Ala-72.	S0140: 1 and L0592: 1.
HEIAJ39	705643	8793	61 - 402	18545	Ser-1 to Gly-19.	S0140: 1 and L0766: 1.
HEIAI86	785680	8794	34 - 135	18546	Leu-11 to Gln-21.	L0361: 2 and S0140: 1.
HEIAD76	574163	8795	2 - 169	18547		S0140: 1

HEIAC62	745672	8796	30 - 176	18548	Gln-38 to Gly-45.	S0140: 1
HDTMJ27	851806	8797	316 - 495	18549		H0486: 1 and L0589: 1.
HDTLI05	928253	8798	1 - 285	18550	Thr-1 to Met-6, Thr-8 to Asp-15, Thr-22 to Gln-27, His-36 to Val-44, Leu-55 to Asp-75, Ser-80 to Asp-95.	L0766: 3, L0754: 2, L0758: 2, H0486: 1 and L0748: 1.
HDTLE28	851830	8799	2 - 172	18551	Phe-27 to Lys-34.	H0486: 1 and L0631: 1.
HDTLB90	969209	8800	293 - 733	18552	Glu-24 to Ser-35.	L0753: 2, H0486: 1, L0774: 1 and L0749: 1.
HDTKX61	806340	8801	105 - 521	18553	Pro-32 to Ser-46, Asn-58 to Pro-76.	H0486: 1 and L0747: 1.
HDTJP10	963456	8802	293 - 469	18554	Lys-19 to Arg-25, Phe-27 to Phe-33, Pro-38 to Lys-44, Ser-49 to Asp-56.	H0486: 1, L0648: 1 and L0755: 1.
HDTJF29	887186	8803	3 - 299	18555	Pro-15 to Gln-30, Pro-45 to Ala-50, Val-62 to Trp-67, Gln-79 to His-99.	AR054: 25, AR050: 21, AR051: 11 H0486: 1, L0779: 1 and L0777: 1.
HDTJF05	931977	8804	10 - 486	18556	Pro-6 to Pro-18, Ala-35 to His-42, Gly-51 to Ser-58.	L0717: 1 and H0486: 1.
HDTIO74	933606	8805	3 - 239	18557	Ile-37 to Arg-42.	AR061: 3, AR089: 1 H0486: 1 and L0748: 1.
HDTIO16	934151	8806	2 - 673	18558	Val-14 to Arg-20, Arg-28 to Gln-33, Arg-106 to Trp-111.	AR089: 31, AR061: 2 H0486: 1
HDTIG62	851951	8807	3 - 263	18559	Cys-65 to Gly-70.	L0766: 3, H0486: 1, L0749: 1 and L0779: 1.
HDTIA48	851944	8808	2 - 271	18560	Pro-1 to Asp-20, Glu-25 to Pro-32, Asp-64 to Lys-72, Glu-85 to Leu-90.	H0486: 1 and L0779: 1.
HDTHU79	774217	8809	83 - 385	18561	Thr-17 to Arg-41,	L0757: 2 and H0486: 1.

HDTHS05	926048	8810	462 - 896	18562	Arg-49 to Cys-57. Phe-42 to Gly-57, Ala-60 to Ser-73, Pro-91 to Gly-101, Lys-108 to Gln-116.	H0486: 1 and L0777: 1.		
HDTHP45	841796	8811	23 - 160	18563	Glu-8 to Ser-16.	H0486: 1		
HDTHI02	918728	8812	120 - 266	18564	Ser-29 to Lys-35.	L0759: 3 and H0486: 1.		
HDTHG69	754464	8813	70 - 234	18565		H0486: 1 and L0748: 1.		
HDTHE32	851964	8814	230 - 490	18566		L0790: 2, L0749: 2, H0486: 1 and L0363: 1.		
HDTHA77	771334	8815	458 - 312	18567		L0748: 2, H0486: 1, L0743: 1 and L0731: 1.		
HDTGT62	742828	8816	22 - 180	18568		L0748: 2 and H0486: 1.		
HDTGQ31	697539	8817	3 - 380	18569		H0486: 1 and L0747: 1.		
HDTGH10	963966	8818	140 - 3	18570	Leu-10 to Gln-20.	L0779: 2 and H0486: 1.		
HDTGC27	682687	8819	313 - 429	18571		H0486: 1 and L0748: 1.		
HDTFX46	915075	8820	265 - 501	18572		H0486: 1 and L0748: 1.		
HDTFT42	713399	8821	259 - 474	18573		H0486: 1 and L0766: 1.		
HDTFR93	792077	8822	38 - 298	18574	Glu-39 to Lys-49.	H0486: 1 and L0439: 1.		
HDTFN38	706752	8823	205 - 408	18575	Ser-10 to Tyr-17.	H0486: 1, L0471: 1, L0745: 1 and L0756: 1.		
HDTFI27	682705	8824	92 - 382	18576		L0803: 6, L0805: 2, L0439: 2, H0486: 1, L0809: 1, L0779: 1 and L0777: 1.	12q15-q21	181430, 217300, 600698, 600698, 600698, 600808, 602116
HDTFG15	913812	8825	40 - 333	18577	Ile-8 to Phe-15, Glu-27 to Met-32, Asp-63 to Trp-72.	L0361: 2, H0486: 1, L0766: 1 and L0439: 1.		
HDTET62	587822	8826	111 - 332	18578		H0486: 1, L0745: 1 and L0746: 1.		
HDTEJ57	872215	8827	1 - 429	18579	Gly-1 to His-9, Ala-33 to Pro-39.	L0741: 2 and H0486: 1.		
HDTDS89	799881	8828	120 - 233	18580		H0486: 1		
HDTDS44	799863	8829	138 - 266	18581	Lys-8 to Pro-13.	H0486: 1		
HDTDP20	883680	8830	1 - 384	18582	Leu-60 to His-67.	L0483: 2 and H0486: 1.	7q32	180105, 190900, 222800, 246900

HDTDP02	919572	8831	1 - 255	Pro-10 to Ser-20.	H0486: 1 and L0756: 1.		
HDTDL15	851999	8832	15 - 245	Thr-61 to Asn-69.	L0546: 4, H0486: 1 and L0779: 1.		
HDTDJ44	587742	8833	179 - 439		L0746: 2, L0753: 2, H0486: 1, L0606: 1 and L0745: 1.		
HDTDG89	799870	8834	221 - 382	Gln-27 to Val-34.	H0486: 1		
HDTDD88	615173	8835	113 - 439	Arg-23 to Arg-29, Arg-40 to Pro-54.	H0486: 1		
HDTDD72	587710	8836	162 - 371		AR089: 159, AR061: 142 H0486: 1	17p13.3	113721, 247200, 600059, 601545
HDTDD70	757088	8837	327 - 446	Asn-21 to Arg-37.	H0486: 1		
HDTDD67	754739	8838	3 - 335	Glu-1 to His-9, Ala-11 to Thr-19.	H0486: 1		
HDTDD15	668754	8839	9 - 188		H0486: 1	15q22	102578, 109700, 151670, 154550, 601780
HDTDC74	799868	8840	138 - 305	Leu-2 to Lys-8, Ala-19 to Gly-35, Pro-37 to Asn-45, Lys-50 to Gln-56.	H0486: 1		
HDTDC64	799871	8841	219 - 389		H0486: 1		
HDTDC38	706741	8842	335 - 523	Ala-26 to Ser-36.	L0748: 2 and H0486: 1.	6q26-q27	100678, 147280, 152200, 167000, 173350, 173350, 173350, 180020, 600320, 600883, 602544
HDTDC30	692063	8843	15 - 290		H0486: 1		
HDTDB37	587699	8844	105 - 404	Glu-1 to Ser-10, Ser-24 to Ala-29.	H0486: 1, L0471: 1, L0745: 1 and L0777: 1.		
HDTDB21	587700	8845	258 - 61	Ile-15 to Asn-24, Lys-61 to Lys-66.	L0747: 2, H0486: 1 and L0766: 1.		
HDTCC55	934923	8846	195 - 911	Ser-26 to Ser-32.	H0486: 1 and L0766: 1.		
HDTCC01	916455	8847	371 - 562		H0486: 1, L0506: 1, L0508: 1, L0493: 1 and L0758: 1.		
HDTBZ83	842950	8848	2 - 454	Arg-1 to Gly-15.	H0486: 1		

449

Clone	No.	No.	Range	SEQ ID	Amino acid range	Clone info
HDTBV06	935393	8849	37 - 198	18601		H0486: 1 and L0809: 1.
HDTBU73	764410	8850	538 - 720	18602	Gly-24 to Ile-30.	H0486: 1, L0748: 1 and L0747: 1.
HDTBT35	706730	8851	1 - 306	18603		L0521: 2, H0486: 1, L0740: 1, L0756: 1 and L0779: 1.
HDTBS91	789425	8852	2 - 520	18604	Glu-1 to Leu-18.	H0486: 1 and L0439: 1.
HDTBS45	591589	8853	289 - 2	18605		L0749: 2, H0486: 1, L0637: 1 and L0748: 1.
HDTBR39	705350	8854	452 - 742	18606		H0486: 1 and L0758: 1.
HDTBP84	783024	8855	78 - 275	18607	Leu-1 to Ala-6.	H0486: 1 and L0750: 1.
HDTBM53	727526	8856	25 - 150	18608		H0486: 1
HDTBM31	697918	8857	136 - 372	18609	Glu-18 to Cys-23, Asp-74 to Ser-79.	L0750: 2 and H0486: 1.
HDTBK62	742603	8858	45 - 221	18610	His-26 to Cys-41, Lys-54 to Lys-59.	H0486: 1
HDTBG80	916167	8859	173 - 478	18611	Lys-34 to Arg-41.	H0486: 1 and L0362: 1.
HDTBD67	899636	8860	252 - 1175	18612	Pro-20 to Pro-29, Phe-42 to Val-52, Leu-106 to Pro-113, Arg-134 to Gly-139, Ala-207 to Asn-213, Thr-227 to Phe-239.	AR054: 32, AR051: 10, AR089: 3, AR061: 2, AR050: 2, H0486: 1
	902517	9731	2 - 838	19483	Phe-13 to Val-23, Leu-77 to Pro-84, Arg-105 to Gly-110, Ala-178 to Asn-184, Thr-198 to Phe-210.	H0486: 1
HDTAU14	658429	8861	66 - 176	18613		H0486: 1 and L0745: 1.
HDTAT80	911928	8862	105 - 281	18614	Gly-44 to Thr-50.	H0486: 1
HDTAP53	728216	8863	234 - 329	18615		H0486: 1 and L0748: 1.
HDTAH15	840327	8864	180 - 476	18616		H0486: 1, L0747: 1 and L0731: 1.
HDTAE60	810259	8865	36 - 167	18617	Val-32 to Gln-37.	H0486: 1 and L0748: 1.
HDTAE44	799902	8866	260 - 397	18618		H0486: 1 and L0438: 1.
HDTAE29	780991	8867	99 - 332	18619		H0486: 1
HDTAE16	661997	8868	206 - 439	18620	Ala-12 to Ser-17,	H0486: 1

450

HDTAE09	799874	8869	153 - 305	18621	Ser-24 to Ser-30, Pro-73 to His-78.	H0486: 1	Xq13.1-q13.3	304040, 305100, 305450, 309605, 312760, 314250, 314580
HDTAB89	786039	8870	113 - 310	18622		H0486: 1 and L0748: 1.		
HDTAA31	937609	8871	1100 - 1432	18623	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.	AR089: 14, AR061: 4 H0486: 1 and L0779: 1.		
	941948	9732	1100 - 1432	19484	Arg-3 to Asp-9, Pro-49 to Gly-54, Ser-65 to His-70, Lys-78 to Lys-111.			
HDRAC08	963325	8872	224 - 33	18624	Ser-6 to Ser-11, Thr-55 to Pro-60.	H0537: 1 and L0439: 1.		
HDQPR06	936658	8873	2 - 202	18625	Ser-8 to Glu-20, Glu-26 to Gln-36.	H0522: 1, L0751: 1, L0777: 1 and L0594: 1.		
HDQPP57	926953	8874	64 - 180	18626	Lys-34 to Ser-39.	H0522: 1 and L0748: 1.		
HDQII08	958252	8875	338 - 469	18627	Arg-8 to Ile-13.	H0521: 1 and L0749: 1.		
HDQHU84	782202	8876	1 - 171	18628		L0748: 3 and H0521: 1.		
HDQHO94	793387	8877	1 - 126	18629	Pro-15 to Gly-25, Gly-29 to Trp-41.	L0766: 1 and H0521: 1.		
HDQHJ04	926978	8878	3 - 614	18630	Ser-8 to Ser-21, Thr-46 to Asp-55, Lys-91 to Gly-97, Glu-103 to Asp-115, Gln-125 to Ala-135, Pro-137 to Ser-143, Lys-154 to Phe-163.	L0370: 1 and H0521: 1.		
HDQGW10	963512	8879	46 - 267	18631	Ser-1 to Trp-9, Gln-35 to Lys-40.	L0367: 1, H0521: 1 and L0439: 1.		
HDQGF78	772952	8880	352 - 480	18632	Gln-30 to Pro-35.	H0521: 1 and L0748: 1.		
HDQFT10	852587	8881	121 - 324	18633	Ser-63 to Lys-68.	L0375: 1 and H0521: 1.		
HDQFJ39	852593	8882	197 - 469	18634	Gly-74 to Thr-80.	L0766: 1 and H0521: 1.		

HDQFE93	791724	8883	870 - 1046	18635		L0439: 4, H0521: 1 and L0740: 1.
HDQEX85	875473	8884	2 - 409	18636		H0521: 1, L0748: 1 and L0749: 1.
HDQEW83	780551	8885	2 - 283	18637		L0731: 2 and H0521: 1.
HDQEW11	966126	8886	190 - 2	18638	Ser-5 to Thr-11, Cys-21 to Gly-26, Arg-51 to Gly-63.	L0519: 1 and H0521: 1.
HDQET29	852618	8887	77 - 274	18639	Gly-11 to Lys-22.	H0521: 1 and L0748: 1.
HDQEQ10	963533	8888	380 - 550	18640	Pro-41 to Thr-48.	L0766: 2, L0545: 1 and H0521: 1.
HDQEJ46	957666	8889	424 - 266	18641		H0521: 1 and L0748: 1.
HDQEF93	791753	8890	121 - 369	18642	Gly-21 to Val-28.	L0743: 3 and H0521: 1.
HDQDX89	786323	8891	2 - 709	18643	Gly-16 to Glu-27, Asn-40 to Ser-54, Ser-71 to His-79, Ile-102 to Leu-107, Glu-114 to Gln-120, Gly-127 to Gly-137, Pro-160 to Lys-177, Gln-187 to Thr-199.	L0740: 2 and H0521: 1.
HDQDT10	963482	8892	432 - 283	18644	Pro-4 to Asp-9.	H0521: 1, L0749: 1 and L0779: 1.
HDQDG73	761957	8893	209 - 418	18645	Thr-10 to Asn-15, Pro-31 to Pro-42, Pro-47 to Thr-52.	H0521: 1 and L0750: 1.
HDQDC74	764985	8894	136 - 270	18646	Tyr-21 to Ala-28.	H0521: 1 and L0588: 1.
HDPYO08	958454	8895	139 - 357	18647		L0384: 1, H0521: 1 and L0779: 1.
HDPXZ28	686188	8896	462 - 665	18648		L0794: 2, L0770: 1, L0638: 1, L0773: 1, L0804: 1, L0805: 1, H0521: 1, L0745: 1, L0755: 1 and L0731: 1.
HDPXW88	631353	8897	357 - 187	18649	Cys-3 to His-8, Pro-11 to Gln-21.	L0766: 1 and H0521: 1.
HDPXO03	923602	8898	375 - 521	18650	Lys-1 to Asn-9.	H0521: 1 and L0748: 1.

HDPXN01	915919	69 - 230	18651	Ser-48 to Ser-53.	AR089: 9, AR061: 4 L0794: 5, L0439: 2, L0747: 2, H0521: 1, L0779: 1, L0777: 1 and L0594: 1.		
HDPXL71	760140	27 - 275	18652	Ala-21 to Asp-30.	H0521: 1 and L0745: 1.		
HDPXD40	974493	129 - 320	18653	Glu-5 to Cys-16.	H0521: 1		
HDPXD08	958826	124 - 336	18654	Val-2 to Glu-10, Gln-62 to Arg-71.	L0766: 1 and H0521: 1.		
HDPXC56	974490	76 - 564	18655	Gln-2 to Leu-8, Thr-30 to Pro-41.	H0521: 1		
HDPXB75	786320	2 - 382	18656	Glu-61 to Gly-66, Thr-75 to Gln-82.	H0521: 1		
HDPWX53	727595	2 - 301	18657		H0521: 1, L0748: 1 and L0756: 1.		
HDPWT92	791223	331 - 567	18658	Gly-1 to Ser-6, Ser-21 to Ser-37.	H0521: 1 and L0748: 1.		
HDPWR03	923608	261 - 28	18659	Met-20 to Arg-30, Pro-54 to Glu-65.	H0521: 1 and L0752: 1.		
HDPWN56	733129	3 - 425	18660	Arg-24 to Asp-33, Pro-45 to Glu-55, Glu-81 to Gln-102, Leu-111 to Met-120.	H0521: 1 and L0743: 1.		
HDPWK75	793234	36 - 299	18661	Pro-1 to Pro-10.	H0521: 1 and L0754: 1.	20q13.1	256540, 600281, 600281
HDPWH75	956201	34 - 309	18662	Pro-32 to Pro-43.	L0748: 2 and H0521: 1.		
HDPVC01	915816	323 - 595	18663		H0521: 1 and L0759: 1.		
HDPUW82	921279	216 - 91	18664	Gln-22 to Asp-29, Pro-37 to Thr-42.	H0521: 1 and L0439: 1.		
HDPUV65	747646	248 - 538	18665	Lys-10 to Pro-19, Ile-28 to Ala-33.	H0521: 1 and L0439: 1.		
HDPUV11	966558	436 - 618	18666		L0439: 3, L0748: 2 and H0521: 1.		
HDPUR51	914406	233 - 3	18667	Gly-12 to Asn-17, Ala-67 to Lys-77.	L0599: 2, L0766: 1, L0775: 1, L0776: 1, H0521: 1, L0749: 1, L0779: 1, L0777: 1, L0759: 1, L0480: 1 and		

453

Clone	No.	SEQ ID	Range	Amino acid regions	Clone/library info	Map	OMIM
HDPUN39	957580	8916	1819 - 1067	Leu-18 to Ser-24, Pro-46 to Glu-51, Ala-81 to Glu-89.	L0596: 1. AR089: 2, AR061: 1 L0755: 2, L0662: 1 and H0521: 1.		
HDPUI44	715971	8917	53 - 250		L0748: 2, L0749: 2, L0664: 1 and H0521: 1.		
HDPTO65	747206	8918	37 - 294	Thr-72 to Lys-81.	H0521: 1 and L0608: 1.		
HDPTL59	739068	8919	14 - 388	Arg-8 to Gly-17.	H0521: 1 and L0581: 1.		
HDPTE43	715038	8920	192 - 419	Lys-22 to Ser-31.	H0521: 1 and L0599: 1.	3q25-q29	106165, 165500, 222900, 276902
HDPTD58	735750	8921	298 - 462		H0521: 1 and L0748: 1.		
HDPSW93	973098	8922	103 - 330	Trp-2 to Ser-9.	H0521: 1		
HDPSW82	779614	8923	25 - 417	Gln-7 to Gln-15, Arg-61 to Cys-75, Ser-82 to His-92.	L0749: 2 and H0521: 1.		
HDPSL71	969286	8924	157 - 294	Thr-18 to Gly-23, Val-27 to Gly-32.	L0648: 1, L0803: 1, L0774: 1, L0659: 1, L0665: 1, H0521: 1 and L0758: 1.	1q22-q24	104770, 107300, 110700, 131210, 136132, 145001, 146790, 159440, 159440, 159440, 173610, 186780, 191030, 191315, 600923, 601412, 601518, 601652, 602491
HDPSK64	746370	8925	1 - 633	Arg-13 to Ser-30, Thr-40 to Asp-52.	H0521: 1 and L0749: 1.		
HDPSK53	727586	8926	1 - 474	Leu-25 to Gln-32, Ile-48 to Glu-53, Glu-69 to Cys-78.	L0601: 2 and H0521: 1.		
HDPSJ13	656729	8927	257 - 394		H0521: 1 and L0748: 1.		
HDPSB10	961309	8928	1 - 444	Met-14 to Pro-24, Lys-31 to Glu-36, His-70 to Gly-76.	AR089: 1, AR061: 0 L0665: 1 and H0521: 1.		
HDPSA86	785293	8929	452 - 219		H0521: 1 and L0439: 1.		
HDPRW01	915993	8930	91 - 294	Gly-1 to Ser-6,	H0521: 1 and L0731: 1.		

Clone	Number	Range	SEQ ID	Description	References
				Gln-23 to Ser-38.	
HDPRS89	887682	3 - 341	18683	Asn-54 to Lys-63, Thr-69 to Phe-74, Trp-98 to Ser-108.	AR050: 58, AR054: 55, AR051: 47 H0521: 1
HDPRR24	914667	111 - 410	18684	Asn-65 to Arg-71.	H0521: 1 and L0745: 1.
HDPRK07	948672	12 - 158	18685	Arg-1 to Thr-11, Ser-19 to Leu-25.	L0766: 1, H0521: 1 and L0779: 1.
HDPRJ04	909040	3 - 419	18686	Lys-21 to His-27, Phe-44 to Arg-55, Lys-72 to Lys-80, Glu-88 to Thr-94.	AR089: 0, AR061: 0 H0521: 1 and L0758: 1.
HDPRE41	712124	378 - 232	18687	His-20 to Thr-25.	H0521: 1 and L0754: 1.
HDPRA51	725103	2 - 175	18688	Arg-27 to Ser-32.	H0521: 1
HDPQV82	779421	13 - 327	18689	Gly-5 to Gly-11, Lys-38 to Lys-43.	H0522: 1 and L0748: 1.
HDPQR07	952337	500 - 604	18690		H0522: 1 and L0779: 1.
HDPQI68	955006	14 - 508	18691	Glu-42 to Asp-47, Gly-54 to Gly-61, Pro-67 to Asn-73, Lys-145 to Asn-151.	L0752: 2, L0659: 1, H0522: 1 and L0779: 1.
HDPQH06	934616	66 - 275	18692	Arg-12 to Arg-20, Phe-34 to Lys-45, Pro-65 to Asp-70.	L0794: 1 and H0522: 1.
HDPQF03	923120	5 - 748	18693		AR054: 9, AR050: 7, AR051: 2 L0769: 1, H0522: 1, L0744: 1 and L0754: 1.
HDPQC63	744461	18 - 302	18694	Asn-16 to Arg-21, Arg-35 to Ile-41.	H0522: 1 and L0748: 1.
HDPQA64	872237	3 - 266	18695	Pro-6 to Arg-19, Pro-25 to Cys-30, Pro-33 to Arg-40.	H0522: 1 and L0596: 1.
HDPPP29	690497	138 - 1	18696	Ser-30 to Gly-45.	H0522: 1 and L0759: 1.
HDPPB17	662917	1 - 387	18697	Pro-17 to Gly-34, Asp-59 to Val-72, His-77 to Asp-87,	H0522: 1 and L0740: 1.

455

HDPOX03	923856	8946	320 - 132	18698	Ser-107 to Thr-121. Asn-9 to Asn-15.	H0522: 1 and L0749: 1.
HDPOT78	773487	8947	223 - 456	18699	Ser-1 to Tyr-7, Tyr-19 to Val-25, Leu-30 to Thr-35, Ile-47 to Asn-56, Ile-68 to His-75.	L0753: 2, H0522: 1, L0740: 1 and L0750: 1.
HDPOP03	923843	8948	185 - 439	18700	Thr-10 to Tyr-15, Gly-66 to Ile-81.	H0522: 1 and L0756: 1.
HDPOC02	919597	8949	344 - 631	18701	Arg-16 to Gly-22.	L0439: 2, H0522: 1, L0779: 1 and L0731: 1.
HDPNJ73	764407	8950	1 - 228	18702	Val-1 to Ser-12, Ser-18 to Arg-23.	H0522: 1 and L0603: 1.
HDPND09	607575	8951	323 - 165	18703	Arg-20 to Asp-25, Gly-37 to Val-47.	H0522: 1
	874076	9733	308 - 18	19485	Pro-8 to Arg-13, Thr-39 to Gln-48.	
	897723	9734	425 - 291	19486	Glu-22 to Cys-28, Leu-40 to Lys-45.	
HDPNC22	674539	8952	407 - 715	18704	Glu-1 to Glu-6, Asp-11 to Gln-18, Pro-20 to Tyr-25, Pro-27 to Lys-38.	L0748: 6, L0749: 2, H0522: 1 and L0752: 1.
HDPMV35	706647	8953	191 - 349	18705		H0522: 1 and L0752: 1.
HDPMR81	493958	8954	422 - 189	18706	Ala-1 to Pro-11, Lys-18 to Leu-31, Met-59 to Arg-64.	H0522: 1
	584265	9735	1 - 282	19487	Thr-2 to Glu-9, Ser-11 to Lys-16, Ile-65 to Arg-77.	
HDPMH51	725029	8955	3 - 224	18707	Asn-14 to Tyr-22, Lys-44 to Ser-50.	L0746: 3, H0522: 1 and L0748: 1.
HDPMG46	934144	8956	274 - 2	18708		H0522: 1 and L0780: 1.
HDPLV29	849526	8957	224 - 439	18709	Glu-35 to Tyr-46.	L0766: 2 and H0522: 1.
HDPLU84	782061	8958	163 - 318	18710	Lys-9 to Gln-14, Thr-40 to Cys-49.	H0521: 1 and L0748: 1.

HDPLT62	973945	8959	18711	405 - 809		AR089: 1, AR061: 0 H0521: 1		
HDPKI78	773469	8960	18712	19 - 126		H0521: 1 and L0749: 1.		
HDPKA03	923841	8961	18713	267 - 407		L0740: 4, L0777: 2, L0803: 1 and H0521: 1.		
HDPJX07	952966	8962	18714	350 - 574	Gly-2 to Gln-12, Asp-68 to Asp-73.	L0769: 1, L0803: 1, H0521: 1 and L0758: 1.		
HDPJP44	716466	8963	18715	91 - 360	Asp-43 to Cys-50.	L0803: 7, L0794: 5, L0804: 5, L0775: 3, L0789: 2, L0805: 1, L0776: 1, L0809: 1, H0521: 1, L0747: 1, L0779: 1 and L0758: 1.		
HDPJK23	488326	8964	18716	2 - 355	Lys-74 to Arg-80.	H0521: 1 and L0757: 1.		
HDPJB19	887886	8965	18717	3 - 293	Gln-12 to Lys-19.	AR050: 112, AR051: 76, AR054: 75 H0521: 1		
HDPJA07	953001	8966	18718	46 - 243	Ser-2 to Ser-10.	H0521: 1 and L0745: 1.		
HDPIW95	933240	8967	18719	181 - 774	Gln-66 to Asn-71, Ala-130 to Gln-135, Leu-137 to Asn-144, Thr-154 to Ser-163.	L0779: 2, H0521: 1, L0745: 1 and L0758: 1.		
HDPIV34	703959	8968	18720	328 - 489	Thr-9 to Asn-19.	H0521: 1 and L0754: 1.		
HDPIQ24	771939	8969	18721	141 - 485	Arg-17 to Gly-23, Ala-37 to Ser-46, His-78 to Leu-85, Ser-103 to Lys-110.	H0521: 1 and L0595: 1.		
HDPIP06	935198	8970	18722	444 - 569	Phe-1 to Thr-7, Gly-46 to Leu-59.	H0521: 1 and L0748: 1.		
HDPIL73	764344	8971	18723	34 - 213		H0521: 1		
HDPIL01	916221	8972	18724	206 - 343	Gly-19 to His-27.	H0521: 1		
HDPIF78	881960	8973	18725	130 - 360		H0521: 1		
HDPIF66	750575	8974	18726	51 - 443	Cys-48 to Gln-60, Gln-78 to Gln-86.	H0521: 1	19p13.3	108725, 120700, 136836, 133171, 147141, 145981, 188070, 164953, 601238, 600957,

						601846, 602216, 602477
HDPIF54	729441	8975	239 - 469	Pro-7 to Thr-12, Thr-17 to Thr-26.	H0521: 1 and L0439: 1.	
HDPID88	415993	8976	2 - 241	Ser-1 to Leu-17, Gln-22 to Gly-29, Cys-32 to Trp-39, Ser-45 to Ser-64.	H0521: 1	
HDPID53	728058	8977	222 - 401	Ala-19 to Glu-26.	H0521: 1	
HDPIA21	827350	8978	1 - 192		H0521: 1	
HDPHF37	706622	8979	54 - 209		H0521: 1	
HDPHA89	786078	8980	111 - 437	Glu-12 to Gln-17, Lys-25 to His-35.	L0745: 2, H0521: 1, L0741: 1 and L0746: 1.	
HDPHA40	711126	8981	1 - 162	Pro-4 to Arg-12, Leu-30 to Thr-36.	H0521: 1 and L0749: 1.	
HDPHA37	812336	8982	2 - 508	Gln-14 to Gly-20, Pro-35 to Gly-42, Leu-55 to Pro-62, Gln-92 to Asp-104, Ser-130 to Lys-136, Lys-145 to Ala-153, His-155 to Thr-161.	H0521: 1	
HDPHA34	704036	8983	264 - 512		H0521: 1 and L0748: 1.	
HDPGX15	660089	8984	43 - 315		H0521: 1	
HDPGX10	964519	8985	419 - 550		L0766: 1 and H0521: 1.	
HDPGX03	924010	8986	242 - 388		H0521: 1	
HDPGT96	973363	8987	1 - 237	His-20 to Asp-26.	H0521: 1	
HDPGS93	792256	8988	239 - 466	Phe-21 to Gly-37, Leu-63 to Asn-76.	H0521: 1	
HDPGS45	921381	8989	24 - 236	Arg-15 to Pro-21, Gln-44 to Ala-57.	L0748: 3 and H0521: 1.	
HDPGS43	715232	8990	39 - 212		L0794: 1, L0766: 1, H0521: 1, L0750: 1, L0777: 1 and L0759: 1.	
HDPGS16	909833	8991	188 - 460	Asp-40 to Leu-46, Phe-50 to Arg-61, Pro-76 to Asp-83.	AR061: 0, AR089: 0 H0521: 1 and L0758: 1.	

HDPGS01	916352	8992	58 - 204	18744	Pro-6 to Gly-13.	H0521: 1
HDPGR44	468389	8993	1 - 225	18745	Gly-1 to Ile-10, Pro-22 to Gly-27.	H0521: 1
HDPGN15	394693	8994	195 - 389	18746	Pro-20 to His-25, Arg-55 to Cys-61.	H0521: 1
HDPGN13	416046	8995	1 - 147	18747	Gly-27 to Asn-32, Gly-42 to Pro-49.	H0521: 1
HDPGN11	966923	8996	300 - 166	18748		L0766: 1 and H0521: 1.
HDPGJ49	722903	8997	119 - 310	18749		H0521: 1 and L0748: 1.
HDPGI75	766618	8998	156 - 302	18750	Arg-18 to Gln-24.	H0521: 1
HDPGI74	765524	8999	87 - 209	18751	Pro-18 to Lys-35.	H0521: 1
HDPGH73	764397	9000	2 - 118	18752	Glu-6 to Gly-11, Lys-18 to Ile-32.	H0521: 1
HDPGG01	916389	9001	282 - 115	18753		H0521: 1 and L0604: 1.
HDPGD28	879489	9002	223 - 441	18754	Phe-19 to Asp-28.	H0521: 1, L0748: 1 and L0749: 1.
HDPFZ70	709684	9003	482 - 775	18755	Leu-40 to Gly-93.	AR054: 199, AR051: 196, AR050: 193, AR089: 22, AR061: 4 H0521: 1
	872273	9736	289 - 522	19488		
HDPFW02	919306	9004	211 - 2	18756	Ala-60 to Gly-70.	H0521: 1
HDPFS71	486744	9005	481 - 329	18757		H0521: 1
HDPFS59	486737	9006	65 - 196	18758	Lys-38 to His-43.	H0521: 1
HDPFP96	796360	9007	116 - 226	18759	Gly-1 to Lys-6, Phe-9 to Thr-17, Lys-27 to Thr-33.	H0521: 1 and L0581: 1.
HDPFP71	760327	9008	374 - 655	18760	Thr-10 to Cys-17, His-39 to Gly-46, Arg-58 to Ser-71.	L0747: 2 and H0521: 1.
HDPFP14	486765	9009	127 - 321	18761	Ser-18 to Thr-25, Pro-35 to Ser-40.	H0521: 1
	495698	9737	446 - 279	19489		
HDPFN23	486738	9010	315 - 455	18762	Ala-1 to Glu-16, Pro-37 to Ala-45,	H0521: 1
	495721	9738	346 - 149	19490		

Clone								
HDPFM28	486766	9011	1 - 243	18763	Pro-47 to Lys-54. Ser-5 to Ser-14, Ser-34 to Gly-45, Gly-51 to Cys-56.	H0521: 1		
	495724	9739	477 - 223	19491				
HDPFL52	486739	9012	43 - 198	18764	His-17 to Cys-22.	H0521: 1		
	495697	9740	195 - 1	19492	Lys-1 to Lys-7, Pro-45 to Arg-54, Asp-60 to Pro-65.			
HDPFJ58	783957	9013	229 - 74	18765		H0521: 1 and L0750: 1.		
HDPFD10	964521	9014	270 - 632	18766	Ile-87 to Ile-94.	H0521: 1, L0777: 1 and L0759: 1.		
HDPFB03	936331	9015	326 - 607	18767	Tyr-12 to Gly-17, Tyr-75 to Asp-81.	L0776: 1, H0521: 1 and L0748: 1.		
HDPDH08	959303	9016	155 - 352	18768		H0521: 1 and L0588: 1.		
HDPDD12	970592	9017	379 - 164	18769	Thr-30 to Asn-35.	L0770: 11, L0775: 1, L0787: 1, L0666: 1 and H0521: 1.		
HDPDC90	590161	9018	101 - 241	18770	Val-3 to Tyr-17.	H0521: 1		
	950991	9741	564 - 785	19493				
HDPCY47	775412	9019	2 - 358	18771		H0521: 1 and L0750: 1.		
HDPCP89	786075	9020	2 - 175	18772	Ala-1 to Arg-6, Thr-30 to Ser-43.	H0521: 1		
HDPCP64	746527	9021	138 - 332	18773		H0521: 1		
HDPCP48	721620	9022	317 - 418	18774		H0521: 1		
HDPCP46	719014	9023	210 - 356	18775		H0521: 1		
HDPCP43	715227	9024	198 - 446	18776	Pro-1 to Asn-6, Asp-19 to Lys-35.	H0521: 1		
HDPCP16	416032	9025	263 - 421	18777		H0521: 1		
HDPCO12	852847	9026	80 - 310	18778		H0521: 1		
HDPCN88	416035	9027	219 - 365	18779	Lys-28 to Thr-33.	H0521: 1		
HDPCN73	764400	9028	1 - 138	18780		H0521: 1		
HDPCN33	416028	9029	169 - 351	18781		H0521: 1		
HDPCM66	852849	9030	50 - 472	18782	Thr-6 to Gly-11, Pro-29 to Met-40.	H0521: 1	16q12-q13	114835, 132700, 172490, 600968

HDPCM62	454740	9031	137 - 382	His-1 to Asn-12, Pro-14 to Pro-27, Asn-33 to Ser-39, Pro-41 to Asn-46, Pro-74 to Pro-82.	AR061: 159, AR089: 121 H0521: 1	1p34.1-p32	120550, 120570, 120575, 120950, 120960, 121800, 130500, 133200, 138140, 171760, 171760, 178300, 187040, 255800, 600101, 600650, 600650, 600722, 600722
HDPCI45	974424	9032	221 - 382		H0521: 1		
HDPCH85	973314	9033	7 - 222		H0521: 1		
HDPCG33	495711	9034	509 - 330	Gly-3 to Asn-15.	H0521: 1		
	852850	9742	8 - 190	Gln-29 to Tyr-45.			
	852872	9743	122 - 304				
HDPCB67	878776	9035	3 - 299	Glu-11 to Ala-20, Gly-74 to Pro-80.	H0521: 1 and L0747: 1.		
HDPBQ75	466645	9036	1 - 429	Glu-22 to Asp-29, Asp-53 to Ser-63, Met-95 to Arg-104, Thr-115 to Asn-126.	H0521: 1 and L0600: 1.		
HDPBP64	746537	9037	3 - 218	Ile-2 to Gln-7, Val-37 to Lys-44, Lys-58 to Ser-64.	H0521: 1 and L0439: 1.		
HDPBI31	852885	9038	400 - 546		H0521: 1 and L0751: 1.		
HDPBF15	852880	9039	189 - 28	Thr-18 to Ile-37.	H0521: 1 and L0751: 1.		
HDPBE85	783544	9040	3 - 224	Cys-27 to Asn-41.	L0748: 4 and H0521: 1.		
HDPAX21	670893	9041	278 - 418		H0521: 1 and L0599: 1.		
HDPAV46	719027	9042	103 - 291	Glu-22 to Thr-27, Pro-38 to Thr-43, Lys-52 to Gln-57.	H0521: 1 and L0596: 1.		
HDPAP04	615193	9043	128 - 370		H0521: 1 and L0748: 1.		
HDPAO68	972332	9044	1054 - 752	Lys-28 to Ser-38, Arg-51 to Gly-64.	AR061: 30, AR089: 13 H0521: 1		
HDPAO64	746550	9045	305 - 457		H0521: 1 and L0439: 1.	9q13-q21	190100, 200150, 229300, 229300,

							600429, 600884, 600974, 600998, 602014
HDPAN94	901123	242 - 463	18798		AR050: 3, AR051: 2, AR054: 0 H0521: 1		
HDPAK09	494170	143 - 48	18799	Arg-3 to Gly-16.	H0521: 1		
	852903	321 - 464	19496				
HDPAJ64	881654	46 - 324	18800	Cys-38 to Pro-44, Glu-50 to Ser-56.	H0521: 1		
HDPAH17	663779	122 - 331	18801	His-57 to Glu-63.	L0748: 2, L0747: 2, H0521: 1 and L0749: 1.	8q	
HDPAF40	856391	442 - 567	18802		L0599: 2 and H0521: 1.		
HDPAC90	787296	1 - 216	18803		L0605: 2, H0521: 1, L0748: 1, L0745: 1 and L0747: 1.		
HDPAC78	773570	109 - 213	18804		H0521: 1 and L0748: 1.		
HDPAB34	581900	358 - 2	18805	Cys-72 to Thr-79, Thr-105 to Gly-119.	H0521: 1		
	959495	2 - 169	19497				
	959496	1 - 39	19498				
HDPAA80	775417	89 - 310	18806		H0521: 1 and L0748: 1.		
HDPAA38	546575	184 - 2	18807	Lys-51 to Gly-61.	H0521: 1		
HDLBE11	966230	109 - 2	18808	Thr-1 to Gly-6, Gln-13 to Phe-20.	H0485: 1 and L0751: 1.		
HDLAX74	765091	277 - 516	18809	Gly-1 to Gln-8, Leu-17 to Cys-26, Pro-38 to Gln-47, Ser-59 to Gly-66.	L0753: 3 and H0485: 1.		
HDLAX52	726241	615 - 794	18810		H0485: 1 and L0731: 1.	10q	
HDLAW58	735559	111 - 395	18811	Asn-78 to Tyr-83.	H0485: 1 and L0759: 1.		
HDLAV11	852919	122 - 256	18812		H0485: 1 and L0766: 1.		
HDLAG57	565105	211 - 441	18813	Arg-9 to Gly-20.	H0485: 1		
HDLAC67	751699	1 - 141	18814	Asn-14 to Ile-19.	H0485: 1		
HDLAC51	799888	261 - 428	18815	Leu-20 to Asn-25, Leu-41 to Asn-51.	H0485: 1		
HDLAC30	799891	3 - 209	18816	Asp-1 to Arg-18.	H0485: 1		

Code	Number	SEQ	Range	No.	Description	Reference
HDLAA58	736081	9065	297 - 491	18817		H0485: 1
HDCBF12	969401	9066	1 - 189	18818	Ser-16 to Ser-21.	H0637: 1 and L0658: 1.
HDCBD07	951948	9067	1 - 180	18819	Phe-6 to Thr-11.	H0637: 1 and L0666: 1.
HDCAN06	933818	9068	3 - 176	18820		H0637: 1 and L0601: 1.
HDCAG61	852968	9069	80 - 298	18821		H0637: 1 and L0518: 1.
HDBAK09	625387	9070	316 - 546	18822	Asn-6 to Arg-11.	H0578: 1 and L0755: 1.
HDBAA11	966723	9071	283 - 459	18823	Leu-3 to Gln-9.	L0717: 1 and H0578: 1.
HCWWH01	915420	9072	78 - 194	18824		H0589: 1 and L0753: 1.
HCWVA80	974488	9073	1 - 135	18825	Glu-1 to Gln-22.	H0589: 1
HCWUS57	974462	9074	104 - 433	18826	Leu-28 to Ser-33, Thr-57 to Lys-63, Lys-75 to Trp-84, Thr-94 to Gly-103.	H0589: 1
HCWUS50	974467	9075	328 - 516	18827	His-26 to Gln-39, Leu-53 to Tyr-61.	H0589: 1
HCWUQ81	853002	9076	285 - 518	18828	Val-10 to Gly-15.	H0589: 1 and L0748: 1.
HCWUQ10	964080	9077	1 - 207	18829	Ser-31 to Gly-45, Glu-60 to Asn-65.	H0589: 1, L0775: 1 and L0758: 1.
HCWUP62	743064	9078	218 - 430	18830		H0589: 1, L0743: 1 and L0744: 1.
HCWUM01	974466	9079	1 - 243	18831	His-71 to Pro-77.	H0589: 1
HCWUL35	706530	9080	69 - 191	18832	Ala-7 to His-12.	L0777: 2 and H0589: 1.
HCWUI49	722674	9081	152 - 367	18833	Glu-16 to Arg-21, Pro-35 to Ala-41.	H0589: 1 and L0596: 1.
HCWTP17	662486	9082	16 - 225	18834	Ser-23 to Lys-29, Ser-55 to Asp-68.	H0589: 1 and L0740: 1.
HCWTL02	919252	9083	99 - 308	18835	Leu-2 to Ser-9.	H0589: 1 and L0759: 1.
HCWSC38	706523	9084	194 - 547	18836	Ala-6 to Leu-11, Leu-70 to Ser-83.	H0305: 1 and L0758: 1.
HCWLA43	927571	9085	130 - 324	18837		H0305: 1 and L0748: 1.
HCWKT71	888167	9086	2 - 322	18838	Thr-7 to Ser-35.	AR050: 1, AR051: 1, AR054: 1 H0305: 1
HCWKS70	757172	9087	44 - 142	18839	Thr-14 to Gln-25.	H0305: 1
HCWKS35	706518	9088	147 - 332	18840	Phe-1 to Leu-6.	H0305: 1

HCWKR86	784705	9089	263 - 376	18841	Gln-32 to Gly-38.	H0305: 1		
HCWKR85	783555	9090	138 - 284	18842	Arg-6 to Leu-13, Cys-20 to His-27, Lys-41 to Pro-47.	H0305: 1		
HCWKR62	742602	9091	121 - 255	18843	Leu-21 to Gly-26, Ser-35 to Cys-42.	H0305: 1		
HCWKR51	725027	9092	79 - 225	18844		H0305: 1		
HCWKR14	658421	9093	128 - 334	18845	Ser-8 to Pro-19.	H0305: 1		
HCWKQ09	625546	9094	57 - 314	18846	Gln-39 to Trp-47.	H0305: 1, L0748: 1 and L0749: 1.		
HCWKI72	760628	9095	62 - 169	18847		H0305: 1 and L0741: 1.		
HCWKD85	783545	9096	38 - 202	18848	Arg-26 to Ile-36.	H0305: 1 and L0757: 1.		
HCWKC61	741803	9097	2 - 241	18849	Lys-1 to Ser-16, Arg-24 to Ser-32, Glu-49 to Asp-58, Ala-67 to Thr-74.	L0748: 2, L0749: 2 and H0305: 1.		
HCWHN53	728248	9098	148 - 345	18850		H0305: 1 and L0731: 1.		
HCWHF76	838528	9099	448 - 693	18851	Lys-1 to Trp-10, Cys-34 to His-41, Thr-48 to Glu-62.	AR051: 31, AR050: 26, AR054: 20 H0305: 1		
HCWGY56	732688	9100	99 - 230	18852		H0305: 1 and L0748: 1.		
HCWGU65	747198	9101	535 - 116	18853		H0305: 1		
	747199	9747	86 - 301	19499	Ser-11 to Cys-20, Leu-27 to Val-36.			
HCWGR02	920121	9102	1 - 291	18854	Ile-1 to Asp-7.	H0305: 1, L0803: 1 and L0599: 1.		
HCWGE86	974476	9103	348 - 530	18855		H0305: 1		
HCWGE85	783528	9104	238 - 360	18856	Pro-34 to Gln-39.	H0305: 1 and L0749: 1.		
HCWGA64	746153	9105	30 - 152	18857		H0305: 1		
HCWFV07	953582	9106	32 - 430	18858	Asn-14 to Glu-22, Arg-30 to Ala-37, Ser-45 to Gly-74.	H0305: 1, L0779: 1 and L0758: 1.		
HCWFU40	710419	9107	49 - 291	18859		H0305: 1 and L0777: 1.		
HCWFM44	716726	9108	108 - 584	18860	Arg-2 to His-13.	L0754: 2, H0305: 1 and L0748: 1.	19q13.2	107741, 113900, 122720, 122720, 126340, 126391,

Clone					Amino acids	Codes	
HCWFK37	800389	9109	128 - 304	18861	Pro-19 to Gln-25, Lys-45 to Leu-52.	AR050: 18, AR054: 12, AR051: 8 H0305: 1	160900, 164731, 173850, 207750, 248600, 258501
HCWFI71	489879	9110	2 - 328	18862	Thr-78 to Ala-86, Pro-98 to Gln-109.	H0305: 1	
HCWFE35	722467	9111	2 - 370	18863	Arg-1 to Arg-6.	L0740: 2, H0305: 1, L0157: 1 and L0755: 1.	
HCWFA63	578898	9112	1 - 237	18864	Gly-6 to Glu-14, Cys-24 to Phe-29.	H0305: 1	
HCWFA51	584725	9113	1 - 234	18865	Gly-6 to Glu-14, Cys-24 to Phe-29.	H0305: 1	
HCWFA35	908820	9114	50 - 364	18866	Lys-19 to Thr-26.	AR089: 13, AR061: 6 H0305: 1	
HCWFA27	578899	9115	86 - 349	18867	Gln-2 to Ser-7, Leu-20 to Lys-26.	H0305: 1	
HCWFA03	921938	9116	244 - 381	18868		H0305: 1	
HCWEW92	573389	9117	1 - 129	18869	Leu-20 to Thr-34.	H0305: 1	
HCWEW68	849928	9118	125 - 268	18870	Ala-29 to Glu-39.	H0305: 1	
HCWES28	685585	9119	2 - 127	18871		H0305: 1	
HCWER13	586984	9120	29 - 187	18872		H0305: 1	
HCWEQ61	741989	9121	2 - 301	18873	Glu-26 to Gln-31, Lys-41 to Glu-50.	H0305: 1, L0748: 1 and L0749: 1.	
HCWEH95	795046	9122	151 - 276	18874	Arg-1 to Trp-6, Cys-13 to Arg-19.	H0305: 1 and L0748: 1.	
HCWDO74	576471	9123	3 - 206	18875		H0305: 1	
HCWDO26	576470	9124	40 - 147	18876		H0305: 1	
HCWDJ81	514607	9125	278 - 144	18877		H0305: 1	
	588502	9748	11 - 343	19500	Pro-35 to Thr-40, Trp-51 to Ser-58.		
	623460	9749	99 - 326	19501			
HCWCR40	711507	9126	176 - 316	18878	Phe-3 to Lys-8, Ser-15 to Val-22.	L0766: 2, H0305: 1 and L0745: 1.	
HCWCN11	849959	9127	717 - 896	18879		L0766: 2, L0748: 2 and	

HCWCM08	849958	9128	122 - 340	18880		H0305: 1.
HCWCL46	719244	9129	240 - 410	18881	Gly-11 to Lys-16.	H0305: 1, L0766: 1 and L0777: 1.
HCWCJ16	411336	9130	175 - 465	18882	Thr-72 to Tyr-79.	H0305: 1, L0774: 1 and L0465: 1.
	514257	9750	549 - 355	19502	Ser-1 to Gly-10.	H0305: 1
HCWCI85	840121	9131	210 - 389	18883		H0305: 1
HCWCH85	753191	9132	102 - 257	18884	Ser-1 to Arg-9, Leu-13 to Gly-25, Pro-31 to Ile-36.	H0305: 1 and L0766: 1.
HCWCH11	967666	9133	172 - 291	18885	Tyr-3 to Ser-10.	H0305: 1, L0109: 1, L0749: 1, L0779: 1 and L0599: 1.
HCWBM07	954100	9134	108 - 467	18886	Tyr-17 to Ala-33, Pro-58 to Asp-63, Arg-89 to Asp-94, Ala-97 to Pro-104.	L0748: 11 and H0305: 1.
HCWAN45	728385	9135	236 - 60	18887	Arg-42 to Asp-59.	H0305: 1
	889047	9751	11 - 223	19503		
HCWAI53	586997	9136	67 - 300	18888	Val-4 to Lys-13.	H0305: 1
HCWAB85	783392	9137	180 - 311	18889	Pro-1 to Val-7.	H0305: 1
HCWAB72	766288	9138	56 - 211	18890		H0305: 1
HCWAB49	529659	9139	2 - 64	18891	Thr-3 to His-12.	H0305: 1
HCWAB37	575491	9140	56 - 190	18892	Ala-18 to Trp-31, Thr-33 to Ser-38.	H0305: 1
HCWAB36	529660	9141	98 - 244	18893	Tyr-1 to Asp-17, Trp-37 to Cys-44.	H0305: 1
HCWAB35	416968	9142	1 - 201	18894	Ser-12 to Ser-17.	H0305: 1
HCWAB25	575270	9143	21 - 137	18895	Arg-6 to Leu-13.	H0305: 1
HCWAB23	529664	9144	2 - 241	18896	His-45 to Gln-53, Pro-56 to Thr-74.	H0305: 1 and L0789: 1.
HCVAC86	785784	9145	27 - 227	18897	Leu-7 to Leu-13.	H0300: 1
HCVAC80	529688	9146	143 - 316	18898		H0300: 1
HCVAC73	529687	9147	2 - 226	18899	Pro-53 to Trp-62.	H0300: 1
HCVAC72	529693	9148	39 - 260	18900		H0300: 1

HCVAC70	507284	9149	115 - 354	18901	Gly-9 to Ser-17, Thr-51 to Thr-57.		H0300: 1 and L0604: 1.
HCVAC58	575510	9150	2 - 202	18902	Ser-16 to Ala-22, Lys-61 to Gln-67.		H0300: 1
HCVAC47	861969	9151	168 - 326	18903		12	H0300: 1
HCVAC45	529691	9152	2 - 289	18904	Ala-1 to Trp-8, Glu-22 to Leu-28, Leu-32 to Pro-55, Arg-64 to Asp-69, Glu-73 to Leu-79.	17p13	H0300: 1	138190, 254210, 271900, 600179, 600977, 601202, 601777
HCVAC38	529692	9153	209 - 319	18905			H0300: 1
HCVAC33	529694	9154	191 - 331	18906			H0300: 1
HCVAC26	529698	9155	69 - 290	18907	Pro-15 to Arg-20.		H0300: 1
HCVAC21	529695	9156	55 - 222	18908	Met-1 to Ser-6.		H0300: 1
HCVAC19	879694	9157	3 - 197	18909			H0300: 1
HCUIO06	934889	9158	229 - 372	18910	Ser-24 to Asp-37.		H0402: 1
HCUIM28	849998	9159	2 - 409	18911	Pro-16 to Thr-29, Pro-45 to Ala-53, Pro-72 to Trp-77, Pro-101 to Ser-107.		H0402: 1 and L0759: 1.
HCUIK74	765645	9160	50 - 292	18912			L0750: 2 and H0402: 1.
HCUHY13	657297	9161	120 - 386	18913			H0402: 1 and L0361: 1.
HCUHY10	964727	9162	60 - 224	18914			H0402: 1 and L0748: 1.
HCUHU61	850008	9163	183 - 395	18915	Glu-8 to Arg-15.		H0402: 1 and L0717: 1.
HCUHU54	730739	9164	200 - 367	18916			H0402: 1 and L0754: 1.
HCUHT92	792756	9165	3 - 206	18917	Asn-20 to Cys-25, Asn-30 to Ala-38.		H0402: 1 and L0748: 1.
HCUHT74	765641	9166	113 - 256	18918	Asp-1 to Glu-8.		H0402: 1
HCUHT37	575794	9167	87 - 200	18919	Asn-8 to Thr-31, Leu-33 to Trp-38.		H0402: 1
HCUHT26	681874	9168	2 - 118	18920	Asn-11 to Lys-16.		H0402: 1
HCUHT13	657295	9169	17 - 217	18921			H0402: 1
HCUHT03	924494	9170	130 - 282	18922	Glu-37 to Gly-44.		L0748: 2 and H0402: 1.
HCUHS21	670988	9171	247 - 423	18923			H0402: 1 and L0748: 1.
HCUHO27	690027	9172	28 - 177	18924			L0731: 3, L0768: 2, H0402:

HCUHO13	879921	9173	515 - 276	18925		1, L0659: 1 and L0759: 1.
HCUHK11	967142	9174	180 - 410	18926		H0402: 1
HCUHH95	941943	9175	1411 - 1061	18927	Phe-86 to Arg-99, Arg-105 to Phe-111.	H0402: 1, L0717: 1 and L0612: 1.
HCUHH04	927500	9176	3 - 566	18928	Gln-53 to Gln-63.	H0402: 1
HCUHG67	751673	9177	563 - 760	18929		L0777: 2 and H0402: 1.
HCUGT86	784694	9178	133 - 312	18930	Leu-1 to Trp-7.	H0402: 1 and L0468: 1.
HCUGS67	751669	9179	328 - 450	18931	Pro-28 to Lys-41.	H0402: 1 and L0596: 1.
HCUGO07	953412	9180	122 - 262	18932	Val-23 to Arg-28.	H0402: 1 and L0518: 1.
HCUGN19	716989	9181	35 - 382	18933	Glu-58 to Gly-64, Pro-77 to Cys-93, Pro-96 to Pro-106.	AR089: 7, AR061: 2 L0744: 3, L0766: 2, H0402: 1 and L0754: 1.
HCUGM93	792329	9182	5 - 262	18934	Arg-1 to Ser-12.	H0402: 1 and L0748: 1.
HCUGM64	745853	9183	193 - 330	18935		H0402: 1 and L0747: 1.
HCUGL20	668913	9184	112 - 303	18936		H0402: 1 and L0748: 1.
HCUGL01	916550	9185	1 - 162	18937		L0785: 1 and H0402: 1.
HCUGK86	785517	9186	164 - 301	18938		H0402: 1
HCUGK85	783521	9187	3 - 329	18939	Gln-19 to Phe-25, Ser-35 to Pro-44.	H0402: 1
HCUGK78	773601	9188	69 - 227	18940	Leu-7 to Leu-15.	H0402: 1
HCUGK64	746604	9189	3 - 137	18941	Lys-19 to Val-26.	H0402: 1
HCUGK54	730709	9190	3 - 116	18942	His-1 to Lys-6, Leu-30 to Gln-38.	H0402: 1
HCUGK51	725013	9191	2 - 178	18943	Phe-12 to Phe-23.	H0402: 1
HCUGK38	706479	9192	19 - 174	18944	Leu-7 to Leu-13, Ser-30 to Ser-40.	H0402: 1
HCUGK25	678130	9193	1 - 165	18945	Thr-2 to Ala-8.	H0402: 1
HCUGK18	666454	9194	110 - 259	18946	Thr-25 to Gln-30.	H0402: 1
HCUGK17	424102	9195	34 - 204	18947	Ser-21 to His-27.	H0402: 1
HCUGK14	657539	9196	2 - 265	18948	Val-3 to Gly-23.	H0402: 1 and L0662: 1.
HCUGK05	932078	9197	3 - 125	18949		H0402: 1
HCUGI64	746608	9198	2 - 283	18950	Ala-1 to Cys-8.	H0402: 1
HCUGH79	775206	9199	178 - 279	18951	Leu-10 to Lys-15,	H0402: 1

HCUGH64	746600	9200	35 - 133	18952	Leu-19 to Lys-24.	H0402: 1
HCUGH52	726052	9201	67 - 183	18953	Met-1 to Trp-7, Arg-20 to Gln-33.	H0402: 1
HCUGH44	716624	9202	1 - 60	18954		H0402: 1
HCUGH42	713782	9203	89 - 274	18955	Lys-1 to Lys-6.	H0402: 1
HCUGD30	850041	9204	178 - 432	18956	Glu-7 to Gln-14.	L0777: 2, L0599: 2, H0402: 1 and L0369: 1.
HCUGC25	464029	9205	27 - 287	18957	Gly-67 to Glu-73, Val-82 to Tyr-87.	H0402: 1 and L0740: 1.
HCUGB93	850043	9206	2 - 187	18958	Tyr-40 to Gln-45.	H0402: 1
HCUGB58	736092	9207	30 - 113	18959	Lys-19 to Pro-28.	H0402: 1
HCUGB37	706468	9208	56 - 208	18960	Leu-26 to Arg-31, Gly-38 to Lys-51.	H0402: 1
HCUGB22	575851	9209	3 - 134	18961		H0402: 1
HCUGB20	669742	9210	113 - 226	18962		H0402: 1
HCUGB14	854035	9211	185 - 373	18963	Glu-27 to Ser-39.	H0402: 1
HCUFY79	494008	9212	511 - 245	18964		H0402: 1
	882298	9752	287 - 571	19504	Lys-12 to Glu-25, Gly-64 to Asp-79.	
HCUFW11	850054	9213	222 - 401	18965	Gln-1 to Trp-6, Met-21 to Ser-30, Pro-54 to Ala-60.	H0402: 1 and L0748: 1.
HCUFW09	625658	9214	1 - 186	18966	Lys-1 to Pro-6, Ser-8 to Thr-15.	H0402: 1 and L0599: 1.
HCUFT37	706467	9215	239 - 370	18967		H0402: 1, L0021: 1, L0065: 1, L0770: 1, L0769: 1, L0803: 1, L0804: 1, L0791: 1, L0665: 1 and L0747: 1.
HCUFQ08	959567	9216	1 - 342	18968	Leu-21 to Asn-27.	H0402: 1 and L0369: 1.
HCUFP11	967155	9217	2 - 220	18969	Lys-1 to His-6, Pro-20 to Ala-25, Pro-35 to Val-40, Leu-53 to Ser-61.	H0402: 1 and L0749: 1.
HCUFO96	796434	9218	2 - 136	18970		H0402: 1
HCUFO93	792376	9219	64 - 210	18971	Ser-1 to His-12,	H0402: 1

Clone				SEQ ID				
HCUFO68	753083	9220	3 - 122	18972	Pro-15 to Ser-29.	H0402: 1		
HCUFO43	715337	9221	61 - 225	18973	Pro-6 to Thr-18.	H0402: 1		
HCUFO36	575850	9222	79 - 366	18974	Gly-15 to Cys-33, Glu-40 to Lys-52.	H0402: 1		
HCUFO24	677273	9223	70 - 327	18975	Thr-1 to Gly-9, Pro-68 to Glu-79, Pro-91 to Arg-96.	H0402: 1	5q31.3-q33.1	109690, 109690, 131400, 154500, 159000, 180071, 181460, 222600, 222600, 222600, 272750, 600807, 601596, 602089
HCUFO11	967156	9224	2 - 160	18976	Glu-33 to Thr-44.	H0402: 1 and L0682: 1.		
HCUFN78	773620	9225	1 - 168	18977		H0402: 1 and L0754: 1.		
HCUFM35	706461	9226	253 - 414	18978		H0402: 1, L0766: 1, L0647: 1, L0749: 1 and L0605: 1.		
HCUFL40	711242	9227	96 - 326	18979	Ala-1 to Ser-8.	L0604: 2 and H0402: 1.		
HCUFK35	706460	9228	161 - 457	18980	Ser-18 to Ala-24, Gly-32 to Asp-41, Arg-52 to Ile-57.	L0605: 2, H0402: 1, L0777: 1 and L0604: 1.		
HCUFK09	961145	9229	1 - 333	18981		H0402: 1 and L0365: 1.		
HCUFJ08	850074	9230	51 - 215	18982	Leu-1 to Gly-7.	H0402: 1 and L0601: 1.		
HCUFI50	974472	9231	90 - 425	18983		H0402: 1		
HCUFF74	765662	9232	11 - 112	18984		H0402: 1 and L0596: 1.		
HCUFE55	731843	9233	48 - 152	18985	His-5 to Ser-10.	H0402: 1 and L0750: 1.		
HCUFE54	730745	9234	145 - 312	18986	Pro-2 to Tyr-7, Pro-30 to Cys-36.	H0402: 1 and L0751: 1.		
HCUFD70	757280	9235	346 - 534	18987	Pro-6 to Ser-12, Asp-19 to Ile-25.	L0748: 2 and H0402: 1.		
HCUES01	916805	9236	163 - 384	18988		L0369: 2 and H0402: 1.		
HCUEQ12	922556	9237	368 - 138	18989		H0402: 1 and L0731: 1.	3q26	165215, 222900, 600049
HCUEP32	586999	9238	127 - 273	18990	Leu-7 to Gly-17, Leu-23 to Cys-28,	H0402: 1		

Clone			Range	SEQ	Amino acid region	H0402
HCUEO74	576576	9239	2 - 223	18991	Glu-35 to Lys-46. Val-24 to Gly-35, Pro-46 to Cys-51, Thr-57 to Lys-74.	H0402: 1
HCUEO20	669764	9240	267 - 464	18992	Lys-6 to Leu-16.	H0402: 1 and L0600: 1.
HCUEM93	792424	9241	52 - 240	18993	Gly-1 to Cys-6.	L0748: 2 and H0402: 1.
HCUEM15	660450	9242	236 - 370	18994	Glu-32 to Gly-38.	H0402: 1 and L0362: 1.
HCUEL24	677300	9243	171 - 341	18995		L0439: 2 and H0402: 1.
HCUEL07	953587	9244	211 - 462	18996	Glu-12 to Asp-21, Pro-33 to Ser-53, Leu-60 to Thr-69.	L0599: 2, H0402: 1 and L0769: 1.
HCUEG27	683541	9245	314 - 544	18997		H0402: 1 and L0748: 1.
HCUEF38	706450	9246	1 - 171	18998	Leu-16 to Asp-21.	H0402: 1
HCUED05	932123	9247	3 - 194	18999	Ser-15 to Cys-31.	H0402: 1
HCUDY74	839955	9248	133 - 321	19000	Ala-42 to Glu-49.	H0402: 1 and L0520: 1.
HCUDX89	974483	9249	3 - 227	19001	Asp-11 to Arg-17, Arg-32 to Pro-44, Leu-53 to His-58, Gln-68 to Cys-75.	H0402: 1
HCUDU18	850099	9250	1 - 261	19002	Arg-33 to Thr-39.	H0402: 1 and L0589: 1.
HCUDQ81	902510	9251	144 - 329	19003	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Lys-62.	H0402: 1
	928439	9753	440 - 3	19505	Lys-1 to Ile-8, Leu-24 to Gly-29, Glu-52 to Ser-64, Asn-88 to Asn-97, Gln-104 to Glu-109.	
HCUDQ45	881366	9252	295 - 591	19004	Pro-43 to Trp-48, Ser-81 to Ser-90.	H0402: 1
HCUDN89	811185	9253	2 - 328	19005		H0402: 1 and L0756: 1.
HCUDN82	779978	9254	185 - 310	19006		H0402: 1 and L0599: 1.
HCUDN71	862116	9255	2 - 394	19007		H0402: 1 and L0766: 1.
HCUDK08	959679	9256	188 - 316	19008		H0402: 1 and L0803: 1.
HCUDI17	664109	9257	57 - 227	19009	Leu-18 to Ser-25.	H0402: 1
HCUDG26	681985	9258	226 - 369	19010		H0402: 1 and L0591: 1.

HCUDD07	953588	9259	2 - 235	19011		H0402: 1
HCUCK58	850117	9260	1 - 165	19012		H0306: 1 and L0750: 1.
HCUCJ14	659221	9261	189 - 353	19013	Trp-1 to Ser-9.	H0306: 1, L0748: 1 and L0749: 1.
HCUCI23	676276	9262	119 - 208	19014		H0306: 1 and L0745: 1.
HCUCH29	608615	9263	2 - 343	19015	Ser-25 to Ser-30.	AR051: 9, AR050: 3, AR054: 2 H0306: 1
	637567	9754	2 - 337	19506	Ser-23 to Ser-28, Cys-79 to His-84.	
HCUCG40	800153	9264	1 - 153	19016		AR054: 24, AR051: 19, AR050: 12 H0306: 1
HCUCG07	953823	9265	73 - 300	19017	Lys-19 to Lys-25.	H0306: 1 and L0387: 1.
HCUCD83	781346	9266	115 - 381	19018		H0306: 1 and L0755: 1.
HCUCD05	932333	9267	116 - 376	19019		L0588: 2, H0306: 1 and L0747: 1.
HCUBX45	850122	9268	125 - 400	19020	Ser-1 to Gly-7.	H0306: 1, L0800: 1, L0809: 1 and L0779: 1.
HCUBV91	790368	9269	47 - 223	19021		H0306: 1 and L0596: 1.
HCUBT35	850126	9270	121 - 291	19022	Glu-50 to Ala-57.	H0306: 1 and L0748: 1.
HCUBS07	953861	9271	85 - 243	19023	Asp-13 to Trp-18, Leu-39 to Gly-46.	H0306: 1 and L0749: 1.
HCUBP94	574198	9272	3 - 143	19024	Cys-11 to Gln-20.	H0306: 1
HCUBP82	526773	9273	1 - 69	19025		H0306: 1
HCUBP48	577289	9274	1 - 222	19026	Asn-12 to His-19, Lys-61 to Thr-72.	H0306: 1 and L0748: 1.
HCUBP34	576462	9275	177 - 383	19027		H0306: 1
HCUBP10	961259	9276	3 - 203	19028	Lys-1 to Thr-7, Thr-17 to Gln-25, Leu-29 to Arg-44.	H0306: 1
HCUBO67	526489	9277	128 - 232	19029	Pro-15 to Cys-28.	H0306: 1
HCUBM73	577294	9278	1 - 201	19030	Pro-1 to Cys-16.	H0306: 1 and L0748: 1.
HCUBM49	722190	9279	163 - 438	19031	Gly-84 to Thr-90.	L0749: 2, H0306: 1 and L0748: 1.
HCUBL10	968223	9280	222 - 410	19032		H0306: 1 and L0761: 1.

Clone	ID	SEQ	Range	Region	Annotation
HCUBJ45	723364	9281	194 - 367	Lys-12 to Gly-21.	L0748: 2 and H0306: 1.
HCUBG69	757752	9282	2 - 238		H0306: 1
HCUBG43	576468	9283	202 - 381		H0306: 1
HCUBE89	785987	9284	2 - 169	Glu-1 to Lys-13, Gly-34 to His-39.	L0777: 2 and H0306: 1.
HCUBE49	723175	9285	47 - 193	Ser-3 to Gly-10, Leu-13 to His-20.	H0306: 1 and L0599: 1.
HCUBE22	409828	9286	338 - 499		H0306: 1
HCUBB68	752247	9287	174 - 380		H0306: 1 and L0748: 1.
HCUBA93	792515	9288	297 - 440		H0306: 1 and L0591: 1.
HCUAZ01	917266	9289	176 - 298		H0306: 1 and L0634: 1.
HCUAW03	924897	9290	193 - 426	Pro-19 to Arg-34. Thr-20 to Asp-25, His-42 to Ser-58, Asn-68 to Leu-73.	H0306: 1 and L0776: 1.
HCUAP34	706426	9291	8 - 97		H0306: 1 and L0748: 1.
HCUAN95	796010	9292	2 - 100		H0306: 1
HCUAN89	574275	9293	49 - 141	Ser-21 to Lys-31.	H0306: 1
HCUAN53	728364	9294	2 - 133		H0306: 1
HCUAM65	887470	9295	225 - 464		AR050: 38, AR054: 30, AR051: 29 H0306: 1
HCUAL33	702677	9296	8 - 181		L0749: 2, H0306: 1 and L0748: 1.
HCUAG10	968229	9297	1 - 168		H0306: 1 and L0601: 1.
HCUAF80	862171	9298	3 - 140	Ile-26 to Lys-31, Pro-39 to Pro-44.	L0772: 2 and H0306: 1.
HCUAF01	850153	9299	53 - 313	Pro-10 to Ser-16.	H0306: 1
HCUAA92	792947	9300	429 - 593		H0306: 1, L0766: 1, L0745: 1 and L0752: 1.
HCFOP90	862572	9301	438 - 638	Arg-19 to Arg-25.	L0385: 1 and H0423: 1.
HCFOO25	678200	9302	115 - 246		L0777: 1 and H0423: 1.
HCFOO01	916687	9303	230 - 412		L0717: 1 and H0423: 1.
HCFON45	850372	9304	145 - 474	Ser-37 to Ser-42.	AR050: 16, AR054: 7, AR051: 4 H0423: 1

HCFOF34	955905	9305	79 - 249	19057	Ile-1 to Leu-6.	L0375: 1, L0542: 1, L0526: 1, L0749: 1, L0759: 1 and H0423: 1.
HCFNQ62	745755	9306	2 - 151	19058		L0598: 2, UNKWN: 1, L0748: 1, L0749: 1 and H0423: 1.
HCFNP09	961149	9307	145 - 393	19059	Ala-15 to Leu-27, Ser-42 to Glu-47.	L0804: 2, L0731: 2, L0747: 1 and H0423: 1.
HCFNJ34	485822	9308	2 - 325	19060		H0423: 1
	494112	9755	314 - 135	19507	Arg-25 to Gly-36, Pro-55 to Tyr-60.	
HCFNG63	745148	9309	45 - 245	19061	Thr-54 to Pro-67.	H0423: 1
HCFNG10	848225	9310	140 - 1036	19062	Pro-4 to Phe-9, Glu-17 to Pro-24, Lys-51 to Ala-104, Lys-114 to Lys-140, Arg-153 to Gln-188, Glu-203 to Gly-234, Gln-247 to Thr-262.	L0766: 1 and H0423: 1.
HCFNB09	625697	9311	39 - 137	19063		L0748: 1 and H0423: 1.
HCFNA77	874777	9312	2 - 163	19064	Thr-37 to Cys-43.	L0758: 1 and H0423: 1.
HCFNA64	850391	9313	171 - 464	19065	Lys-13 to Gln-19, Ser-26 to Cys-40.	L0777: 1 and H0423: 1.
HCFNA21	671021	9314	115 - 258	19066	Leu-7 to Leu-13, Pro-15 to Cys-28, Arg-41 to Lys-46.	H0423: 1
HCFMZ90	922112	9315	273 - 881	19067	Asp-1 to Arg-8, Lys-15 to Asn-20, Thr-74 to Leu-80, Pro-84 to Asp-90.	AR061: 2, AR089: 1 L0749: 1, L0731: 1, L0757: 1 and H0423: 1.
HCFMW71	920506	9316	195 - 407	19068	Pro-7 to Thr-12.	AR089: 10, AR061: 3 L0748: 3, L0749: 3, L0005: 1, L0777: 1, L0361: 1 and H0423: 1.
HCFMU01	916695	9317	51 - 263	19069	Arg-37 to His-52.	L0766: 2 and H0423: 1.
HCFMP46	463278	9318	54 - 245	19070	Asp-56 to Tyr-63.	L0756: 2, L0777: 2, L0749:

HCFMO47	881505	9319	125 - 322	Pro-14 to Thr-23, Leu-42 to Ser-51.	1 and H0423: 1. H0423: 1	20q11.2	139190, 139190, 224100, 601002, 601002, 601146, 601146, 601146
HCFML02	920349	9320	278 - 607	Phe-18 to Gly-23, Met-79 to Asp-89.	L0809: 1 and H0423: 1.		
HCFMJ37	955281	9321	137 - 658	Pro-58 to Cys-69, Pro-71 to Glu-77, Tyr-102 to Ser-107.	AR089: 5, AR061: 1 H0423: 1		
HCFMH46	719113	9322	109 - 321		L0654: 1 and H0423: 1.		
HCFLY85	909182	9323	96 - 242	Arg-16 to Arg-21, Trp-37 to Leu-48.	L0766: 2, L0747: 2 and H0423: 1.		
HCFLY53	727465	9324	71 - 265		L0748: 3 and H0423: 1.		
HCFLY08	959620	9325	238 - 495		L0599: 2, L0763: 1, L0805: 1, L0754: 1 and H0423: 1.		
HCFLV30	692781	9326	253 - 462	Glu-9 to Ala-14, Gln-24 to Gln-31, Arg-41 to Pro-48.	L0748: 3 and H0423: 1.		
HCFLT86	785560	9327	246 - 560	Tyr-49 to Ala-55.	L0749: 1 and H0423: 1.		
HCFLM03	850403	9328	219 - 395	Asn-12 to Tyr-23.	L0581: 1 and H0423: 1.		
HCFLL03	850406	9329	351 - 698	Pro-39 to Gly-47, Asn-55 to Ser-64, Ser-76 to Gln-83.	L0527: 2, L0366: 1 and H0423: 1.		
HCFLK10	964792	9330	230 - 460		L0745: 1, L0750: 1 and H0423: 1.		
HCFLB24	502414	9331	3 - 248	Ser-43 to Ala-49, Gln-76 to Met-82.	H0423: 1		
	511210	9756	433 - 251	Pro-25 to Ser-33.			
HCFDD43	779327	9332	3 - 173	Glu-38 to Gly-43.	L0586: 1, L0756: 1 and H0422: 1.	12q14	123829, 147570, 181430, 252940, 264700, 600808, 601284, 601769, 601769, 602116
HCFCV32	850413	9333	168 - 377	Asp-22 to Gln-27, Pro-29 to Gly-36.	H0422: 1		

HCFCP77	772256	9334	87 - 194	19086		L0754: 1 and H0422: 1.
HCFCM75	850435	9335	182 - 355	19087	Glu-1 to Lys-15.	L0740: 1 and H0422: 1.
HCFCK25	494159	9336	239 - 3	19088	Lys-50 to Lys-64.	L0517: 1 and H0422: 1.
	519091	9757	212 - 376	19509	Pro-38 to Leu-43, Ile-49 to Cys-55.	
HCFCG23	850426	9337	44 - 247	19089	Lys-46 to Lys-57.	H0422: 1
HCFCF76	973808	9338	1 - 291	19090		H0422: 1
HCFCC10	964782	9339	277 - 507	19091	Arg-58 to Glu-66.	L0794: 2 and H0422: 1.
HCFBX86	844884	9340	425 - 619	19092	Arg-23 to Thr-28.	H0422: 1
	874103	9758	273 - 485	19510		
HCFBQ30	692787	9341	505 - 338	19093		L0748: 1, L0754: 1, L0745: 1 and H0422: 1.
HCFBM75	766599	9342	137 - 316	19094		L0748: 1 and H0422: 1.
HCFBM41	711631	9343	589 - 774	19095	Pro-31 to Lys-38.	L0748: 1 and H0422: 1.
HCFBK28	706243	9344	4 - 171	19096		L0754: 1 and H0422: 1.
HCFBK04	925601	9345	182 - 304	19097	Glu-1 to Trp-7, Gly-35 to His-41.	L0803: 3, L0777: 3, L0756: 2, L0780: 2, L0766: 1, L0774: 1, L0743: 1, L0757: 1, L0596: 1 and H0422: 1.
HCFBI51	670066	9346	27 - 518	19098		H0422: 1
HCFBA94	698647	9347	139 - 291	19099		L0794: 1, L0805: 1, L0439: 1, L0747: 1, L0779: 1; L0758: 1 and H0422: 1.
HCFAZ12	970609	9348	3 - 188	19100	Asp-15 to Ser-22.	AR051: 13, AR054: 2, AR050: 1 H0422: 1
HCFAZ07	849823	9349	222 - 1	19101	Ser-28 to Asn-40, Lys-68 to Lys-74.	L0588: 1 and H0422: 1.
HCFAF08	959714	9350	117 - 275	19102	Leu-1 to Ala-7.	L0438: 2 and H0422: 1.
HCFAC38	576723	9351	2 - 166	19103	Arg-1 to Lys-7, Arg-28 to Arg-34.	H0422: 1
HBYAB02	971578	9352	324 - 139	19104		S3016: 1, L0598: 1, L0763: 1 and L0665: 1.
HBUAG44	716685	9353	3 - 110	19105	His-1 to Ser-6, Ser-21 to Val-28.	S0182: 1 and L0766: 1.
HBUAC23	847698	9354	3 - 194	19106		S0182: 1 and L0748: 1.

Clone		SEQ	Range	ID	Residues	Cassettes	Cyto	Refs
HBTAE84	781946	9355	2 - 295	19107	Thr-41 to Phe-51, Leu-58 to Asn-63.	AR089: 1, AR061: 0 S0180: 1		
HBMXU73	953898	9356	507 - 635	19108	Tyr-7 to Thr-21.	L0770: 2, S0116: 1, L0775: 1 and L0439: 1.		
HBMXS23	675254	9357	216 - 455	19109	Gln-1 to Pro-7, Gln-43 to Ser-53, Lys-67 to Lys-74.	L0748: 4, L0605: 3, S0116: 1 and L0747: 1.		
HBMXL78	738763	9358	312 - 452	19110		S0116: 1 and L0731: 1.		
HBMXL41	711608	9359	2 - 118	19111		S0116: 1 and L0748: 1.		
HBMXJ70	757328	9360	291 - 398	19112		S0116: 1 and L0748: 1.		
HBMXG10	968055	9361	16 - 198	19113	Glu-15 to Trp-22, Cys-24 to Tyr-31, Ser-52 to Arg-57.	S0116: 1 and L0439: 1.		
HBMXF73	764551	9362	134 - 295	19114	Ser-37 to Met-44.	S0116: 1 and L0748: 1.		
HBMWX13	955208	9363	153 - 317	19115	Pro-5 to Pro-11.	S0116: 1 and L0665: 1.		
HBMWS75	767440	9364	108 - 350	19116	Met-1 to Gly-6, Lys-19 to Val-26.	S0116: 1 and L0748: 1.		
HBMWR62	754059	9365	177 - 395	19117		S0116: 1, L0754: 1 and L0589: 1.		
HBMWK06	936088	9366	142 - 249	19118	Lys-8 to Cys-13.	S0116: 1 and L0608: 1.		
HBMWI28	685443	9367	3 - 134	19119	Gly-7 to Arg-13.	L0748: 2 and S0116: 1.		
HBMWE35	706034	9368	184 - 360	19120	Ser-1 to Ser-10, Pro-39 to His-45.	L0745: 2 and S0116: 1.	15q22	102578, 109700, 151670, 154550, 601780
HBMVQ26	546495	9369	175 - 303	19121	Ala-8 to Glu-20.	S0116: 1		
HBMVO41	712565	9370	225 - 359	19122		S0116: 1 and L0439: 1.		
HBMVI33	702683	9371	75 - 242	19123		S0116: 1 and L0439: 1.		
HBMVG85	575418	9372	54 - 221	19124		L0439: 2 and S0116: 1.		
HBMVG18	666855	9373	37 - 159	19125		L0748: 4 and S0116: 1.		
HBMVE59	933208	9374	50 - 178	19126	Asn-4 to Ser-10.	L0748: 3 and S0116: 1.		
HBMVD05	932441	9375	175 - 357	19127	Met-21 to Lys-27, Asp-35 to Thr-40, Gln-42 to Tyr-47.	S0116: 1 and L0581: 1.		
HBMUW96	574517	9376	28 - 210	19128		S0116: 1		
HBMUW85	783416	9377	257 - 625	19129	Pro-11 to Gly-24.	S0116: 1, L0439: 1 and L0731: 1.		

HBMUW58	574513	9378	86 - 214		S0116: 1				
HBMUN03	847787	9379	244 - 408		S0116: 1 and L0758: 1.				
HBMUL31	456760	9380	249 - 503	Ser-22 to Glu-34.	S0116: 1				
HBMUG59	739509	9381	55 - 249	Arg-10 to Thr-16.	S0116: 1 and L0758: 1.				
HBMUG23	425961	9382	464 - 619		S0116: 1 and L0766: 1.				
	675305	9759	155 - 337						
	675308	9760	287 - 189	Gln-16 to Lys-33.					
HBMUD91	789320	9383	262 - 603	Asp-43 to His-71.	S0116: 1 and L0748: 1.				
HBMUB13	950984	9384	177 - 416		S0116: 1 and L0740: 1.				
HBMTX71	760605	9385	122 - 331	Ile-1 to Leu-7, Lys-33 to Ser-38, Gln-52 to Gly-66.	S0116: 1 and L0748: 1.				
HBMTS23	676310	9386	44 - 298	Thr-34 to Asp-39, Pro-75 to Ser-82.	S0116: 1, L0438: 1 and L0439: 1.				
HBMTR29	847785	9387	207 - 497		L0599: 2, S0116: 1, L0763: 1 and L0748: 1.				
HBMTM67	751907	9388	162 - 308		S0116: 1 and L0754: 1.				
HBMTD69	754179	9389	199 - 324		S0116: 1 and L0754: 1.				
HBMTB85	923730	9390	192 - 446		S0116: 1 and L0750: 1.				
HBMTB34	706024	9391	178 - 474	Leu-11 to Asn-19, Arg-39 to Trp-44, Gly-49 to Ala-55.	L0749: 2 and S0116: 1.				
HBMSX83	863883	9392	1 - 162	Arg-1 to Ser-8.	S0116: 1 and L0766: 1.				
HBMDS02	920096	9393	219 - 380	Tyr-12 to Tyr-17.	H0421: 1 and L0777: 1.				
HBMDN16	661947	9394	265 - 495		H0421: 1 and L0439: 1.				
HBMDM25	678127	9395	380 - 571	Asn-14 to Ile-20, Cys-30 to Tyr-36.	H0421: 1, L0766: 1 and L0439: 1.				
HBMDL27	683427	9396	280 - 501	Cys-6 to Arg-26, Ser-28 to Arg-38, Phe-63 to Tyr-74.	H0421: 1 and L0748: 1.				
HBMDF52	727169	9397	365 - 547	Lys-18 to Gly-23.	H0421: 1 and L0599: 1.				
HBMDD72	879813	9398	67 - 387	Pro-2 to Gln-10.	H0421: 1				
HBMCZ30	692733	9399	324 - 530	Arg-1 to Gly-11, Ala-15 to Ser-22, Gln-40 to Gly-45.	H0421: 1 and L0602: 1.				

478

HBMCT24	677209	9400	133 - 285	19152		H0421: 1
HBMCT09	625627	9401	456 - 626	19153	Phe-1 to Asn-11.	L0754: 2 and H0421: 1.
HBMCS92	792736	9402	2 - 181	19154	Ala-1 to Lys-12.	H0421: 1 and L0748: 1.
HBMCS55	731802	9403	76 - 219	19155		L0746: 2, H0421: 1 and L0777: 1.
HBMCR25	678164	9404	275 - 613	19156		L0766: 3, H0421: 1 and L0741: 1.
HBMCQ95	888393	9405	181 - 372	19157		AR050: 133, AR054: 121, AR051: 115 H0421: 1
HBMCG84	783043	9406	3 - 170	19158	Gln-21 to Val-26, Lys-42 to Ile-47.	H0421: 1 and L0748: 1.
HBMCF20	646279	9407	106 - 495	19159		H0421: 1, L0384: 1 and L0592: 1.
HBMCB55	731800	9408	1 - 228	19160	Pro-13 to Arg-21.	H0421: 1 and L0748: 1.
HBMBX72	911168	9409	438 - 719	19161	Trp-10 to Ala-18, Arg-86 to Pro-93.	H0421: 1
HBMBX64	746633	9410	91 - 249	19162		L0754: 2 and H0421: 1.
HBMBX55	668981	9411	199 - 327	19163	Gln-19 to Ala-31.	H0421: 1, L0748: 1, L0439: 1 and L0596: 1.
HBMBU52	973805	9412	97 - 282	19164		H0421: 1 and L0794: 1.
HBMBN85	783520	9413	18 - 212	19165	Arg-25 to Cys-32.	H0421: 1
HBMBI49	723094	9414	316 - 456	19166	Thr-1 to Ser-9.	L0748: 2 and H0421: 1.
HBMBF89	912789	9415	73 - 579	19167		H0421: 1, L0749: 1 and L0755: 1.
HBMBF78	623421	9416	590 - 892	19168		H0421: 1
HBMBE68	879588	9417	2 - 400	19169		H0421: 1 and L0776: 1.
HBMBC66	859500	9418	87 - 353	19170	His-12 to Cys-21.	H0421: 1 and L0747: 1.
HBMBB57	734915	9419	1 - 147	19171		H0421: 1
HBMBB45	578817	9420	12 - 293	19172	Val-6 to Lys-18, Arg-31 to Arg-42, Arg-48 to Asn-55.	H0421: 1
HBMAC54	930481	9421	191 - 433	19173		T0071: 1 and L0051: 1.
HBJNC01	915970	9422	120 - 299	19174		H0318: 1 and L0766: 1.
HBJNB52	726475	9423	160 - 357	19175	Pro-15 to Cys-23.	AR061: 4, AR089: 4

479

Clone						
						H0318: 1, L0766: 1 and L0748: 1.
HBJMW95	797604	9424	497 - 802	19176	Thr-7 to Asp-21, Thr-42 to Ser-54.	L0758: 2 and H0318: 1.
HBJMW03	921996	9425	149 - 310	19177	Ser-16 to Glu-22.	L0745: 2, H0318: 1, L0439: 1, L0746: 1 and L0779: 1.
HBJMU53	727987	9426	88 - 285	19178	Arg-1 to Lys-6, Pro-17 to Phe-27.	H0318: 1 and L0439: 1.
HBJMS40	710880	9427	101 - 235	19179		H0318: 1 and L0748: 1.
HBJMR59	738615	9428	1 - 204	19180		H0318: 1 and L0748: 1.
HBJML90	787320	9429	328 - 164	19181		H0318: 1, L0598: 1 and L0754: 1.
HBJML80	775435	9430	165 - 305	19182	Ala-14 to Thr-19, Cys-29 to Trp-36.	H0318: 1 and L0750: 1.
HBJME11	972939	9431	31 - 234	19183		H0318: 1
HBJMC69	754875	9432	62 - 262	19184		H0318: 1 and L0748: 1.
HBJMA80	777456	9433	42 - 215	19185		H0318: 1 and L0748: 1.
HBJLX09	625319	9434	290 - 442	19186	Gln-4 to Lys-14.	H0318: 1 and L0605: 1.
HBJLW74	765352	9435	88 - 354	19187	Ser-21 to Gly-27.	H0318: 1 and L0748: 1.
HBJLU36	847851	9436	68 - 439	19188	Glu-19 to Ser-30.	H0318: 1 and L0748: 1.
HBJLR37	849633	9437	2 - 328	19189	Asn-1 to His-11.	AR089: 3, AR061: 1 L0593: 2, L0594: 2, H0318: 1 and L0592: 1.
HBJLR31	900883	9438	3 - 956	19190	His-7 to Gly-17, Gly-28 to Gln-33, Asp-51 to Ala-59, Glu-94 to Glu-101, Pro-118 to Val-123, Pro-143 to Gly-152, Gln-203 to Glu-211, Ser-213 to Thr-226, Ser-233 to Gln-239, Arg-274 to Ser-279, His-288 to Pro-294.	AR061: 4, AR089: 3, AR051: 2, AR050: 1, AR054: 1 H0318: 1
HBJLF04	614915	9439	40 - 282	19191		H0318: 1 and L0591: 1.
HBJLE70	847853	9440	586 - 834	19192	Asn-25 to Ser-34,	H0318: 1 and L0777: 1.

480

Clone	Number	SEQ ID	Range	Amino acid regions	References	Location
HBJKI77	772000	9441	98 - 337	Gly-50 to Ser-57.	L0747: 2 and H0318: 1.	
HBJKG07	952843	9442	530 - 802	Pro-12 to Met-21.	H0318: 1 and L0800: 1.	
HBJKF02	919446	9443	246 - 398	Glu-1 to Gly-8, Asp-32 to Glu-40.	H0318: 1 and L0766: 1.	
HBJKD77	771975	9444	179 - 379		H0318: 1	
HBJKD64	746398	9445	3 - 143	Ser-40 to Glu-47.	H0318: 1	
HBJKD60	740171	9446	666 - 902		H0318: 1 and L0754: 1.	
HBJKD50	724159	9447	1 - 204	Arg-1 to Tyr-6.	H0318: 1	
HBJKD49	847857	9448	3 - 215		H0318: 1	
HBJKD40	710931	9449	36 - 179		H0318: 1	
HBJKA77	771982	9450	2 - 178		H0318: 1 and L0777: 1.	18p11.31-p11.2
HBJKA01	916077	9451	19 - 153	Lys-37 to Lys-45.	H0318: 1 and L0646: 1.	202200
HBJJX53	835733	9452	79 - 393		AR061: 6, AR089: 4 H0318: 1	
HBJJT12	894345	9453	3 - 596	Phe-12 to Gln-21, Asp-27 to Thr-38, Pro-44 to Ser-52, Asn-54 to Ser-74, Ser-86 to Thr-92, Ala-117 to Phe-124, Gly-137 to Thr-142, Gly-182 to Ser-187.	AR061: 2, AR089: 1 L0749: 2 and H0318: 1.	
HBJJN02	919371	9454	306 - 548	Thr-1 to Gly-9, Glu-29 to Ala-36, Pro-43 to Asn-50.	L0239: 1 and H0318: 1.	
HBJJL10	937583	9455	3 - 119	Val-23 to Asn-30.	H0318: 1 and L0766: 1.	
HBJJE44	716409	9456	195 - 374	Phe-5 to Trp-19, His-45 to Lys-53.	L0439: 2, L0780: 2 and H0318: 1.	
HBJJA32	699059	9457	381 - 683	Asp-39 to Asn-46, Ser-61 to Gln-66.	L0744: 3, H0318: 1 and L0743: 1.	
HBJJA01	916078	9458	543 - 1055	Asn-66 to Tyr-71, Gly-102 to Phe-109, Lys-120 to Asn-126.	L0766: 5, L0777: 3, L0779: 2, L0731: 2, H0318: 1 and L0803: 1.	
HBJJL42	597100	9459	280 - 411		H0318: 1 and L0754: 1.	
HBJJL36	861363	9460	2 - 370	Leu-62 to Ser-68,	H0318: 1, L0780: 1 and	

HBJIH60	930448	9461	1 - 234	19213	Gly-117 to Gln-123. Pro-35 to Pro-42.	L0759: 1. AR089: 35, AR061: 8 H0318: 1, L0520: 1 and L0779: 1.		
HBJIIF51	725081	9462	86 - 205	19214		H0318: 1 and L0748: 1.		
HBJIIF31	697753	9463	482 - 255	19215	Leu-18 to Leu-28, Leu-32 to Ala-60, Arg-69 to Gln-76.	L0748: 4 and H0318: 1.		
HBJIB69	754891	9464	123 - 251	19216		L0748: 2 and H0318: 1.		
HBJIA80	784267	9465	198 - 428	19217		H0318: 1, L0759: 1 and L0596: 1.		
HBJHX73	971377	9466	241 - 1059	19218	His-8 to Gly-18, Thr-52 to Tyr-63, Tyr-93 to Gly-105, Arg-114 to Gln-130, Asn-139 to Cys-147, Cys-149 to Asp-159, Arg-196 to Trp-202.	AR050: 428, AR054: 421, AR051: 340 H0318: 1		
HBJHW74	765380	9467	112 - 444	19219	Pro-4 to Leu-11, Gly-39 to Arg-53.	L0748: 2 and H0318: 1.		
HBJHU20	907575	9468	125 - 298	19220		L0589: 2 and H0318: 1.		
HBJHO44	882040	9469	171 - 347	19221	Ser-10 to Arg-15.	H0318: 1 and L0748: 1.		
HBJHI96	828996	9470	237 - 437	19222	Arg-1 to Ser-6, Thr-28 to Trp-38.	H0318: 1 and L0759: 1.	9q34.2-q34.3	120215, 120215, 190198
HBJHG02	919450	9471	202 - 321	19223	Gly-17 to Lys-27, Gln-30 to Val-35.	H0318: 1, L0766: 1 and L0608: 1.		
HBJGT03	923800	9472	35 - 226	19224	Ala-16 to Ser-22, Pro-31 to Leu-38, Ser-41 to Gly-48.	AR061: 5, AR089: 3 L0769: 2, H0318: 1 and L0787: 1.		
HBJFR45	722105	9473	309 - 518	19225	Gln-20 to Ser-34, Cys-53 to Asp-58.	H0318: 1, L0789: 1 and L0748: 1.		
HBJFQ08	959190	9474	139 - 339	19226		H0318: 1		
HBJFP52	728580	9475	165 - 362	19227	Asp-1 to Gly-6, Thr-38 to Arg-46.	L0439: 2 and H0318: 1.		
HBJFP08	959868	9476	191 - 388	19228	Arg-46 to Lys-51.	H0318: 1 and L0777: 1.		
HBJFK85	783432	9477	1 - 111	19229	Pro-20 to Ile-25.	L0439: 2 and H0318: 1.		

HBJFI48	847899	9478	271 - 483	19230		AR051: 32, AR054: 28, AR050: 23 H0318: 1
HBJFI30	691056	9479	33 - 452	19231	Pro-1 to Trp-6, Glu-55 to Glu-64.	L0748: 2, L0740: 2 and H0318: 1.
HBJFH60	740543	9480	242 - 388	19232	Ala-5 to Arg-14, Tyr-22 to His-28.	L0756: 4, L0600: 2, H0318: 1 and L0754: 1.
HBJFH06	935587	9481	333 - 689	19233	Pro-8 to Ser-14, Asn-32 to Gly-38, Arg-75 to Ser-82, Ser-91 to Gln-96.	H0318: 1 and L0592: 1.
HBJFD41	711591	9482	3 - 377	19234		L0608: 2, H0318: 1 and L0748: 1.
HBJFD21	671205	9483	211 - 399	19235	Leu-3 to Gly-16.	L0766: 3, L0748: 3, H0318: 1, L0789: 1 and L0749: 1.
HBJFC23	423885	9484	3 - 458	19236		AR061: 8, AR089: 4 L0439: 3 and H0318: 1.
HBJFB10	968162	9485	44 - 259	19237		L0748: 2, H0318: 1 and L0749: 1.
HBJEY89	787044	9486	104 - 322	19238	Asp-9 to Gly-26.	H0318: 1 and L0747: 1.
HBJES09	487020	9487	66 - 272	19239	Asn-18 to His-23, Glu-38 to Glu-45.	H0318: 1
	490958	9761	284 - 141	19513		
HBJEP70	757374	9488	283 - 471	19240	Glu-1 to Arg-8.	L0754: 2 and H0318: 1.
HBJEN68	752251	9489	307 - 465	19241		L0748: 2 and H0318: 1.
HBJEM45	722107	9490	49 - 153	19242		H0318: 1 and L0740: 1.
HBJEL04	615515	9491	329 - 493	19243		L0748: 2 and H0318: 1.
HBJEJ06	935967	9492	99 - 200	19244		H0318: 1 and L0748: 1.
HBJEE72	766187	9493	2 - 184	19245		L0439: 2 and H0318: 1.
HBJED51	485130	9494	3 - 206	19246		H0318: 1
HBJED05	935058	9495	273 - 473	19247	His-4 to Leu-15.	S0005: 1 and H0318: 1.
HBJEC67	573809	9496	160 - 438	19248	Arg-2 to Leu-9, Arg-38 to Cys-54.	H0318: 1
HBJEA73	573834	9497	1 - 81	19249	Gly-1 to His-18, Ala-22 to Trp-27.	H0318: 1
HBJEA54	625943	9498	308 - 445	19250	Asn-35 to Arg-41.	H0318: 1

HBJEA38	577103	9499	19251	12 - 257	Lys-1 to Glu-10.	L0749: 4 and H0318: 1.
HBJEA37	839964	9500	19252	1 - 108	Lys-10 to Pro-20.	H0318: 1
HBJEA13	419107	9501	19253	56 - 268		H0318: 1
HBJDZ49	847928	9502	19254	142 - 303		L0758: 2, H0318: 1 and L0752: 1.
HBJDR24	677407	9503	19255	94 - 219		H0318: 1 and L0748: 1.
HBJDQ86	784654	9504	19256	3 - 116		H0318: 1 and L0756: 1.
HBJDM70	757435	9505	19257	313 - 399	Leu-1 to Tyr-6.	H0318: 1 and L0754: 1.
HBJDL24	678272	9506	19258	180 - 440	Glu-48 to Gly-53.	L0748: 3 and H0318: 1.
HBJCV85	900955	9507	19259	538 - 735		AR054: 10, AR050: 8, AR051: 2 H0318: 1
HBJCQ65	876430	9508	19260	68 - 286	Gly-35 to Ser-48.	H0318: 1, L0748: 1 and L0754: 1.
HBJCJ82	779645	9509	19261	315 - 479		H0318: 1
HBJCE07	954090	9510	19262	1 - 132	Glu-11 to Arg-19.	H0318: 1 and L0748: 1.
HBJCB83	781411	9511	19263	2 - 370		H0318: 1 and L0748: 1.
HBJBR04	847952	9512	19264	115 - 309		H0318: 1 and L0748: 1.
HBJAP95	796659	9513	19265	175 - 276		H0318: 1 and L0752: 1.
HBJAO55	732436	9514	19266	40 - 171	Thr-24 to Gly-37.	H0318: 1 and L0748: 1.
HBJAJ49	723164	9515	19267	320 - 439		H0318: 1 and L0748: 1.
HBJAI50	724619	9516	19268	1 - 345	Gly-32 to Tyr-41, Leu-64 to Asp-71.	L0731: 4, H0318: 1, L0783: 1, L0809: 1 and L0757: 1.
HBJAH27	682941	9517	19269	104 - 235	Pro-29 to Pro-35.	H0318: 1
HBJAE32	699695	9518	19270	214 - 408	Ile-3 to Leu-11, Lys-45 to Asp-50, Val-60 to Cys-65.	H0318: 1, L0664: 1, L0438: 1 and L0749: 1.
HBJAB77	772422	9519	19271	80 - 325	Asn-17 to Trp-23, Ala-33 to Ile-47.	H0318: 1 and L0748: 1.
HBJAB49	722195	9520	19272	175 - 471	Tyr-39 to Val-44.	L0766: 2, L0803: 2 and H0318: 1.
HBJAB28	847966	9521	19273	96 - 272	Gly-38 to Lys-45.	H0318: 1 and L0485: 1.
HBJAB15	660552	9522	19274	31 - 390	Glu-71 to Phe-79, Glu-98 to Ala-103, Ala-111 to Met-117.	H0318: 1 and L0759: 1.

HBDAE47	720008	364 - 486	19275	Phe-25 to Pro-34.	L0363: 1, L0766: 1, L0804: 1 and S0308: 1.		
HBDAD64	864344	240 - 548	19276	Gln-8 to Trp-30, Arg-77 to Val-95.	L0754: 2 and S0308: 1.		
HBDAD16	661560	260 - 388	19277	Tyr-2 to His-10.	L0809: 1, L0748: 1 and S0308: 1.		
HBCCO10	963157	184 - 372	19278	Thr-30 to Glu-37, Gln-42 to Arg-49.	L0749: 2 and H0370: 1.		
HBCCJ05	930956	72 - 365	19279	Pro-5 to His-14, Ser-58 to Ala-66.	H0370: 1 and L0748: 1.		
HBCCE11	965869	336 - 527	19280	Arg-9 to Cys-21, Pro-35 to Trp-41.	H0370: 1, L0766: 1 and L0803: 1.		
HBCCD06	938319	1 - 408	19281	Arg-1 to Glu-6, Ala-10 to Ala-15, Ala-35 to Ser-43.	H0370: 1 and L0759: 1.		
HBCCB51	975256	48 - 227	19282	Lys-46 to Gly-60.	H0370: 1		
HBCBR08	958151	3 - 428	19283	Pro-18 to Gln-23, Pro-72 to Gln-81, Pro-87 to Ser-93, Asp-112 to Leu-119, Pro-121 to Ala-135.	H0370: 1 and L0766: 1.	16q22.1	103850, 114835, 116800, 140100, 140100, 192090, 192090, 192090, 192090, 245900, 245900, 276600, 600223
HBCBN51	952057	358 - 738	19284	Arg-7 to Ser-19, Leu-97 to Ala-106.	AR089: 28, AR061: 8 L0143: 2, H0370: 1 and L0595: 1.		
HBCBN06	934110	25 - 231	19285		H0370: 1 and L0748: 1.		
HBCBG04	926761	213 - 596	19286	Lys-13 to Leu-18.	L0749: 2 and H0370: 1.		
HBCBF12	969578	1 - 225	19287		H0370: 1, L0659: 1 and L0758: 1.		
HBCBE57	848322	426 - 677	19288	Gly-51 to Gly-56, Pro-62 to Gly-74.	H0370: 1, L0748: 1, L0749: 1 and L0591: 1.		
HBCBB22	848325	566 - 868	19289		H0370: 1, L0744: 1, L0779: 1, L0777: 1 and L0601: 1.		
HBCAW52	573919	65 - 247	19290	Pro-7 to Pro-19, Ser-26 to Gly-34.	H0370: 1		

HBCAT10	968195	9539	84 - 218	19291	Tyr-9 to Gly-15, Lys-34 to Gln-41.	H0370: 1 and L0759: 1.
HBCAS32	699489	9540	106 - 264	19292	Leu-1 to Gln-6, Pro-13 to His-18, Arg-35 to Val-43.	H0370: 1 and L0744: 1.
HBCAQ85	783431	9541	2 - 307	19293	Gly-18 to Pro-24, Pro-26 to Gln-41.	L0439: 2 and H0370: 1.
HBCAQ42	864356	9542	182 - 430	19294	Arg-8 to Asp-17.	H0370: 1 and L0365: 1.
HASCG58	738423	9543	21 - 236	19295		L0748: 3, L0731: 2, H0274: 1 and L0754: 1.
HASAW90	789112	9544	494 - 655	19296	Asn-27 to Ser-38.	L0740: 2, L0758: 2, H0004: 1 and L0439: 1.
HASAR74	879377	9545	745 - 1068	19297		H0004: 1
	883501	9762	251 - 643	19514		
HASAC10	968746	9546	3 - 287	19298	Arg-30 to Tyr-38, Met-71 to Arg-76, His-78 to Val-86, Glu-89 to Gly-95.	H0004: 1, L0639: 1, L0748: 1 and L0779: 1.

486

[044]   The first column in Table 1A provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1A. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

[045]   The second column in Table 1A provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the immune/hematopoietic associated contig polynucleotide sequences disclosed in Table 1A. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1A, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[046]   The fifth column in Table 1A provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[047]   Column 6 in Table 1A lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In preferred embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1A. It will be appreciated that depending on the

487

analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[048]   Column 7 in Table 1A provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1A, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of ^{33}P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be predominantly

expressed in immune/hematopoietic tissues, including normal and diseased immune/hematopoietic tissues (See Table 1A, column 7 and Table 4).

[049]   Column 8 in Table 1A provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[050]   A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1A under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[051]   Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (supra). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1A, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 1B

Clone ID NO:Z	SEQ ID NO:X	CONTIG ID:	BAC ID: A	SEQ ID NO:B	EXON From-To
HAMHB21	11	961376	AL035530	19515	1-137 465-2035 2761-2939 3499-3663 3841-4296 5031-5501 5707-5905 5946-6330 6790-6899 6957-7401 7628-7818 7889-10548
HAMHB21	11	961376	AL035530	19516	1-577
HASAX16	12	573692	AL358796	19517	1-1065
HASAX16	12	573692	AL356513	19518	1-1281
HASAX16	12	573692	AL358796	19519	1-964
HASAX16	12	573692	AL356513	19520	1-540
HASAX16	12	573692	AL356513	19521	1-967
HASAY74	13	526312	AC006479	19522	1-1081
HASAY74	13	526312	AC006479	19523	1-1052
HASAY74	13	526312	AC006479	19524	1-117
HASAY89	14	958768	AC012580	19525	1-874
HASAY89	14	958768	AL133502	19526	1-874
HASAY89	14	958768	AC012580	19527	1-87
HASAY89	14	958768	AC012580	19528	1-1034 1426-2177
HASAY89	14	958768	AL133502	19529	1-1034 1426-2177
HASAY94	15	521835	AC022702	19530	1-220 2365-2620 2992-3310 3432-3987 4545-5235 5266-5325 5814-6468 6801-6965 7327-7763 7979-8172
HASAY94	15	521835	AC025796	19531	1-272
HASAY94	15	521835	AC024998	19532	1-272
HASAY94	15	521835	AL365438	19533	1-272
HASAY94	15	521835	AL390122	19534	1-272
HASAY94	15	521835	AL133216	19535	1-306 1488-1890 2450-2722 3082-3400 3526-4081 4304-5314
HASAY94	15	521835	AF198096	19536	1-308 1490-1896 2457-2728 2816-3407 3532-4087

					4313-5008
					5584-6209
HASAY94	15	521835	AC024998	19537	1-592
HASAY94	15	521835	AC022702	19538	1-316
HASAY94	15	521835	AC025796	19539	1-592
HASAY94	15	521835	AL365438	19540	1-591
HASAY94	15	521835	AL390122	19541	1-592
HASAY94	15	521835	AL133216	19542	1-750
HASAY94	15	521835	AL133216	19543	1-138
					734-1117
					1716-2301
					2496-3003
					3142-3588
					5476-6185
					6679-7322
					7428-7952
					8163-8628
					9071-9154
					9380-9538
					10422-10640
					10673-10765
					10780-10828
					11018-11735
					12735-13548
					13651-14193
					14663-14949
					15056-15454
					17688-18060
					19315-19659
HASAY94	15	521835	AF198096	19544	1-2408
HASAY94	15	521835	AF198096	19545	1-373
HBCAL39	17	964871	AL023808	19546	1-606
HBCAL39	17	964871	AL354975	19547	1-609
HBCAL39	17	964871	AL355583	19548	1-609
HBCAL39	17	964871	AL117337	19549	1-607
HBCAL39	17	964871	AL161931	19550	1-607
HBCAL39	17	964871	AL022345	19551	1-83
					1585-1635
					1808-2378
					5485-5902
					6116-6277
					8376-8779
					8822-8972
					9168-9821
					11260-11538
					13579-13698
					17448-17520
					17571-17848
					18839-19282
					19624-20151
					20479-21084
					21175-21448
					32819-33061
					34887-35180
					35454-36250
					37565-38021
					38576-38855

					40356-40851 40884-41362 43851-44422 45111-46319 46743-49458 50723-51179 52126-52399 53142-53345 55328-55452 55462-56374 58253-58708
HBCAL39	17	964871	AF205588	19552	1-607
HBCAL39	17	964871	AL354975	19553	1-274
HBCAL39	17	964871	AL023808	19554	1-528
HBCAL39	17	964871	AL354975	19555	1-528
HBCAL39	17	964871	AL355583	19556	1-274
HBCAL39	17	964871	AL355583	19557	1-528
HBCAL39	17	964871	AL117337	19558	1-273
HBCAL39	17	964871	AL117337	19559	1-526
HBCAL39	17	964871	AL161931	19560	1-273
HBCAL39	17	964871	AL161931	19561	1-526
HBCAL39	17	964871	AL022345	19562	1-465
HBCAL39	17	964871	AF205588	19563	1-526
HBCAL39	17	964871	AF205588	19564	1-273
HBCAR79	19	573989	AC021215	19565	1-432
HBCAT17	21	503573	AC011448	19566	1-874
HBCAT17	21	503573	AC011448	19567	1-749
HBCAT63	22	573993	AL133243	19568	1-236
HBCAT63	22	573993	AL133243	19569	1-364
HBCAT63	22	573993	AL133243	19570	1-141
HBCBX12	24	861018	AC068475	19571	1-70 163-330 651-994 1105-1272 1372-1586 2253-2908 2995-3524 3711-4406 4418-4480 4581-5218 5621-5829 6007-6286
HBCBX12	24	861018	AC005954	19572	1-91 893-1009 1323-1695 1856-2422 3548-3650 3665-4010 4965-5170 5288-5397 6874-7000 7283-7430 7520-7600 7693-7860 8181-8524 8634-8807 8902-9116

					9783-10438
					10525-11054
					11241-11936
					11948-12010
					12111-12748
					13154-13362
					13540-13833
					14748-14851
					14928-15142
					15543-15616
					17091-17240
					17351-18020
					18331-18662
					19524-19871
					19999-20209
					20570-20670
					20861-21075
					22489-22727
					22961-23073
					25307-25360
					29573-29961
					31051-31168
HBCBX12	24	861018	AC005954	19573	1-131
HBDAC79	26	935414	AP001785	19574	1-99
					368-765
					963-1141
					1966-2078
					2175-2597
					3058-3200
					3479-3686
					4113-4631
					4727-5095
					5187-5344
					5973-6073
					6176-7972
					8126-9308
HBDAC79	26	935414	AP001785	19575	1-224
HBDAC79	26	935414	AP001785	19576	1-428
HBDAD04	27	614849	AC055822	19577	1-970
HBDAD04	27	614849	AC055822	19578	1-424
HBDAD04	27	614849	AC055822	19579	1-281
HBDAF51	28	725481	AC041031	19580	1-709
HBDAF51	28	725481	AC012314	19581	1-859
					928-1588
					2180-2459
					2554-2831
					2984-3375
					3783-4571
					4867-5280
					5713-7103
HBDAF51	28	725481	AC010492	19582	1-859
					928-1588
					2180-2459
					2553-2830
					2983-3374
					3782-4570
					4866-5279

					5712-7102
HBDAF51	28	725481	AC012314	19583	1-428
HBDAF51	28	725481	AC010492	19584	1-428
HBDAF61	29	864338	AC003963	19585	1-1249
HBDAF61	29	864338	AC003963	19586	1-582
HBDAF61	29	864338	AC003963	19587	1-106
HBJAB59	30	557972	AC073349	19588	1-596
HBJAB59	30	557972	AC073349	19589	1-107
HBJAB59	30	557972	AC073349	19590	1-608
HBJAC23	31	529753	AC008013	19591	1-37
					103-661
					1556-1903
					1956-2579
					2645-3136
					3489-3537
					4511-4666
					5208-5598
					5932-6495
					6523-7338
					8399-8495
					9972-10388
					10578-11240
					11254-11411
					11711-11799
					12318-12567
					13065-13804
					13950-14573
					15144-15404
					16572-16810
					17843-17999
					18506-18812
					18839-19318
					20897-21290
					21743-22162
					22280-23030
HBJAC23	31	529753	AC006432	19592	1-151
					694-1084
					1418-1981
					2009-2823
					3503-3599
					5071-5487
					5677-6339
					6355-6510
					6809-6897
					7416-7665
					8157-8919
					9065-9688
					10259-10519
					11692-11930
					12638-12770
					12941-13097
					13610-13902
					13943-14422
					15994-16388
					16841-17233
					17379-18129
HBJAC23	31	529753	AC008013	19593	1-294

HBJAC23	31	529753	AC008013	19594	1-289 692-1099 1395-1823 2203-2837 3577-4809 4987-5449 5855-6157 6332-6552 6672-6725 6773-6994 7254-7358 7391-7785 7880-8597 10291-10690 10700-11175 11393-11530 11644-11749
HBJAC23	31	529753	AC006432	19595	1-290
HBJAG72	32	722723	AC022533	19596	1-479
HBJAG72	32	722723	AC068898	19597	1-479
HBJAG72	32	722723	AC022533	19598	1-140
HBJAG72	32	722723	AC068898	19599	1-140
HBJAJ75	34	953840	AL133163	19600	1-98 211-417 784-1004 1875-2071 2745-2913 3205-4214 4242-4552 4695-5574 6331-6850 7048-7631 7696-8408 8763-8873 8944-10131 10166-10740
HBJAJ75	34	953840	AL133163	19601	1-535
HBJAJ85	35	675904	AC002450	19602	1-117
HBJAJ85	35	675904	AC002450	19603	1-894
HBJAJ85	35	675904	AC002450	19604	1-501
HBJAV57	36	527998	AC004976	19605	1-140 348-434 2467-2856 3263-3461 4014-4463 4995-5067 6578-6638 7115-7236
HBJAV57	36	527998	AC004976	19606	1-273
HBJAY91	38	828026	AC067953	19607	1-341
HBJAY91	38	828026	AC067953	19608	1-180
HBJAY91	38	828026	AC067953	19609	1-364
HBJBM14	39	781398	AC022239	19610	1-407
HBJBM14	39	781398	AC022239	19611	1-463
HBJBM14	39	781398	AC022239	19612	1-663
HBJBU55	41	527112	AC024631	19613	1-580
HBJBU55	41	527112	AC024631	19614	1-103

HBJCD43	42	714390	AC013726	19615	1-76 903-1151 6010-6078 6161-6277 8977-9064 9732-9789 10007-10050 10340-10668 10685-10790 11749-11985 13579-13684 14185-14277 16029-16442 17116-17154
HBJCD43	42	714390	AC013726	19616	1-181 186-409
HBJCD43	42	714390	AC013726	19617	1-315
HBJCJ68	44	823468	AC022827	19618	1-223
HBJCJ68	44	823468	AC025429	19619	1-223
HBJCJ68	44	823468	AC022827	19620	1-255
HBJCJ68	44	823468	AC022827	19621	1-331
HBJCJ68	44	823468	AC025429	19622	1-331
HBJCJ68	44	823468	AC025429	19623	1-254
HBJDL73	48	531104	AC073041	19624	1-80 1609-2611 2813-3040 3929-4450 5011-5181 6243-6662 7347-7904
HBJDL73	48	531104	AC007401	19625	1-115 615-834 2847-2983 6954-6980 7541-7661 9579-9723 12147-12951 13592-13749 17487-18023 23251-23354 24659-24888 25992-26409 30147-30227 31757-32759 32961-33188 34077-34598 35159-35329 36391-36810 37495-39032 39741-42310 42460-42939 43671-44248 44277-44792 46043-46323 46392-47319
HBJDO70	50	752830	AC026134	19626	1-539
HBJDO70	50	752830	AC026134	19627	1-169

HBJDO70	50	752830	AC026134	19628	1-421
HBJDP32	51	573846	AC046176	19629	1-2934
HBJDP32	51	573846	AC046176	19630	1-357
HBJDP41	52	494836	AC015764	19631	1-90 1233-1633 2222-2584 3024-3326 3819-3944 4361-4505
HBJDP41	52	494836	AC011667	19632	1-138 1281-1681 2270-2632 3070-3372 3865-3990 4407-4644 8378-8745 8970-10143 10599-10746 11435-11585 11809-12440 12785-14150
HBJDP41	52	494836	AC012052	19633	1-401
HBJDP41	52	494836	AC012052	19634	1-363
HBJDT47	55	573728	AC016555	19635	1-330
HBJDT47	55	573728	AC010243	19636	1-330
HBJDT47	55	573728	AC010897	19637	1-330
HBJDW36	57	573847	AC023933	19638	1-460
HBJDW36	57	573847	AC023933	19639	1-231
HBJDW36	57	573847	AC023933	19640	1-311
HBJDX18	58	795732	AC007546	19641	1-103 1091-1218 1856-2074 2112-2398 2749-2937 4357-4400 5823-5913 6287-6977 7105-7443 8618-8818 9074-9299 10264-12381 12541-13026 13249-13333 13355-14023 14447-14788 14908-15500 15562-16612 17335-17834 18610-18726 21062-21312 21764-21927 24230-24297 25325-27507 27761-28166 28198-28323 29007-30428 31322-31453

					32388-32501 36331-36501
HBJDX18	58	795732	AC040979	19642	1-691 819-1158 2333-2533 2789-3014 3110-3211 3641-6097 6257-7059 7071-7662
HBJDX18	58	795732	AC007546	19643	1-258
HBJDX18	58	795732	AC040979	19644	1-284
HBJDX18	58	795732	AC007546	19645	1-143 204-922
HBJEA22	60	674872	AC018393	19646	1-382
HBJEA22	60	674872	AC023051	19647	1-382
HBJEA22	60	674872	AC018393	19648	1-333
HBJEA22	60	674872	AC023051	19649	1-333
HBJEA25	61	589249	AC016153	19650	1-76 255-413 485-549 1027-1356 1650-1744 1873-1996 2718-2802 2850-3420 3710-4290 4976-5599 5718-6368 6700-6837 7237-7349
HBJEA44	62	973376	AC069385	19651	1-515
HBJEA65	63	934994	AL031589	19652	1-1069
HBJEA65	63	934994	AL031589	19653	1-318
HBJED66	65	787251	AC023043	19654	1-400
HBJED66	65	787251	AP001321	19655	1-400
HBJED66	65	787251	AP001155	19656	1-400
HBJED66	65	787251	AP001158	19657	1-400
HBJED66	65	787251	AP001321	19658	1-112
HBJED66	65	787251	AP001155	19659	1-451 491-1227 2776-3139 3477-3947 4551-4788
HBJED66	65	787251	AP001321	19660	1-451 491-1227 2776-3139 3477-3947 4550-4787
HBJED66	65	787251	AP001158	19661	1-450 490-1226 2775-3138 3476-3946 4549-4786
HBJED66	65	787251	AP001155	19662	1-112
HBJED66	65	787251	AP001158	19663	1-112
HBJEE29	66	888625	AL035652	19664	1-1667

HBJEE29	66	888625	AL035652	19665	1-530
HBJEE29	66	888625	AL035652	19666	1-242
HBJEI42	69	669495	AC073917	19667	1-645
HBJEI42	69	669495	AC010191	19668	1-645
HBJEI42	69	669495	AC073532	19669	1-645
HBJEI42	69	669495	AC073917	19670	1-167
HBJEI42	69	669495	AC073917	19671	1-383
HBJEI42	69	669495	AC010191	19672	1-167
HBJEI42	69	669495	AC073532	19673	1-383
HBJEI42	69	669495	AC010191	19674	1-382
HBJEI42	69	669495	AC073532	19675	1-111
HBJEJ21	70	671201	AC008449	19676	1-302
HBJEJ21	70	671201	AC008648	19677	1-302
HBJEJ21	70	671201	AC008449	19678	1-293
HBJEJ21	70	671201	AC008449	19679	1-331
HBJEJ21	70	671201	AC008648	19680	1-327
HBJEJ21	70	671201	AC008648	19681	1-291
HBJEJ29	71	693490	AC002126	19682	1-432
HBJEJ29	71	693490	AC002126	19683	1-415
HBJEJ83	72	847920	AC009970	19684	1-687
HBJEJ83	72	847920	AC040935	19685	1-687
HBJEJ83	72	847920	AC009970	19686	1-377
HBJEJ83	72	847920	AC009970	19687	1-380
HBJEJ83	72	847920	AC040935	19688	1-377
HBJEJ83	72	847920	AC040935	19689	1-380
HBJEO29	73	693491	AC011276	19690	1-646
HBJEO29	73	693491	AC009557	19691	1-644
HBJEO29	73	693491	AC011276	19692	1-578
HBJEO29	73	693491	AC009557	19693	1-324
HBJEO29	73	693491	AC009557	19694	1-441
HBJEP15	74	847843	AC005580	19695	1-394
HBJEP73	75	764573	AC073066	19696	1-314
HBJER19	76	953804	AC009118	19697	1-374
HBJES44	77	715846	AC034199	19698	1-723
HBJES44	77	715846	AC034199	19699	1-540 851-1144 1164-1646 1871-3258 3619-4160 4216-4290 4715-5577 7379-7476 8023-8700 8786-8852 8970-9054 9100-9487 10513-10885 12867-12891 13114-13224 14721-14752 16197-16933 17094-17635 17691-17821 18749-19392 20883-21548 22494-22739

					23284-24570 24971-25301 25676-26051 27036-28731
HBJES44	77	715846	AC034199	19700	1-3850
HBJET94	79	794343	AL133485	19701	1-272
HBJET94	79	794343	AL133485	19702	1-174
HBJET94	79	794343	AL133485	19703	1-422
HBJEW15	80	507534	AC010618	19704	1-416 2674-2762
HBJEW15	80	507534	AC010618	19705	1-134
HBJEW15	80	507534	AC010618	19706	1-1447
HBJEZ09	81	573781	AC026110	19707	1-304
HBJEZ09	81	573781	AC010204	19708	1-304
HBJEZ09	81	573781	AC026110	19709	1-309
HBJEZ09	81	573781	AC026110	19710	1-291
HBJEZ09	81	573781	AC010204	19711	1-291
HBJEZ09	81	573781	AC010204	19712	1-311
HBJEZ16	82	421567	AL158163	19713	1-145 1576-1931 2612-2916 4117-4471 5006-5270
HBJEZ16	82	421567	AL158163	19714	1-892
HBJEZ39	83	690479	AC068085	19715	1-438
HBJEZ39	83	690479	AC068085	19716	1-634 690-747
HBJFJ53	85	573806	AC010736	19717	1-423 433-814
HBJFJ53	85	573806	AC010736	19718	1-169
HBJFK55	86	625315	AC009116	19719	1-374
HBJFK55	86	625315	AC009116	19720	1-401
HBJFK55	86	625315	AC009116	19721	1-258
HBJFL49	87	573970	AC063939	19722	1-428
HBJFP58	88	738298	AC069475	19723	1-122 261-484
HBJFV59	90	573747	AL121585	19724	1-1187
HBJFV59	90	573747	AL121585	19725	1-373
HBJFV59	90	573747	AL121585	19726	1-618
HBJFW10	91	878778	AC027538	19727	1-466
HBJFW10	91	878778	AC010770	19728	1-466
HBJFW10	91	878778	AC012100	19729	1-466
HBJFW20	93	573755	AC024673	19730	1-323
HBJFW20	93	573755	AC024673	19731	1-723
HBJFW50	94	571351	AL159977	19732	1-493
HBJFW50	94	571351	AL354879	19733	1-493
HBJFW50	94	571351	AL159977	19734	1-1712
HBJFW55	95	526682	AC007068	19735	1-878
HBJFW55	95	526682	AC007068	19736	1-367
HBJFW68	96	573766	AC024283	19737	1-309
HBJFW68	96	573766	AL358118	19738	1-309
HBJFW68	96	573766	AC024283	19739	1-291
HBJFW68	96	573766	AL358118	19740	1-84
HBJFW68	96	573766	AC024283	19741	1-84
HBJFW68	96	573766	AL358118	19742	1-301
HBJFY40	100	574095	AL157786	19743	1-466

HBJFZ21	101	671191	AC025698	19744	1-238
HBJFZ21	101	671191	AC025698	19745	1-299
HBJFZ82	104	799685	AC010645	19746	1-1412
HBJFZ82	104	799685	AC010645	19747	1-1261
HBJGU70	108	864063	AC007897	19748	1-844
HBJGU70	108	864063	AC022221	19749	1-852
HBJGU78	109	920821	AC004031	19750	1-93 2963-3611 4073-4400 5450-5677 6354-6505 7666-7726 8063-8297 8342-9068 10411-10884 11187-11272 11986-12402 13606-13851 15238-15358 16262-16453 16496-16995 17115-18395 18440-19183
HBJGU78	109	920821	AC004031	19751	1-1144
HBJGV17	110	662725	AL353762	19752	1-498
HBJGV17	110	662725	AC016875	19753	1-498
HBJGV17	110	662725	AL160400	19754	1-498
HBJGV17	110	662725	AL353762	19755	1-233
HBJGV17	110	662725	AC016875	19756	1-233
HBJGV17	110	662725	AL160400	19757	1-233
HBJGV17	110	662725	AL353762	19758	1-609
HBJGV17	110	662725	AC016875	19759	1-609
HBJGV17	110	662725	AL160400	19760	1-609
HBJGV22	111	613781	AC022911	19761	1-104 830-1011 3820-4373 4806-11538
HBJGV22	111	613781	AC011726	19762	1-104 830-1011 3820-4350 4806-11538 11548-12020 12024-12350 12414-12689 14228-14715 16787-17694 17790-17959 18231-18469 18706-18850 19239-22713
HBJGV22	111	613781	AC011726	19763	1-297
HBJGV32	112	699075	AC009634	19764	1-515
HBJGV32	112	699075	AC073268	19765	1-515
HBJGV32	112	699075	AC011721	19766	1-515
HBJGV32	112	699075	AC009634	19767	1-267
HBJGV32	112	699075	AC073268	19768	1-267

HBJGV32	112	699075	AC009634	19769	1-600 988-1537
HBJGV32	112	699075	AC011721	19770	1-600 988-1537
HBJGV32	112	699075	AC011721	19771	1-267
HBJHG04	113	836184	AC023786	19772	1-280
HBJHG04	113	836184	AC023786	19773	1-1165 1586-1624 1808-2761 3231-3329 3534-7009 7036-8261
HBJHG76	114	970826	AC008282	19774	1-489
HBJHG76	114	970826	AC008282	19775	1-132
HBJHI28	115	686278	AC025631	19776	1-298 517-673 1415-1852 1943-4455 4661-7352 7756-8267 10857-11392 12124-12168 13434-13859 17669-17979
HBJHI28	115	686278	AL391060	19777	1-2513
HBJHI28	115	686278	AL035410	19778	1-443 604-760 1167-1666 1722-1786 2577-3250 3362-3522 4704-6294 6874-7170 7576-7704 8744-9106 9143-9447 10052-10697 10851-11007 11749-12186 12277-14790 14996-17687
HBJHI28	115	686278	AL391060	19779	1-327
HBJHI28	115	686278	AL035410	19780	1-512
HBJHJ44	116	621723	AC023648	19781	1-677 702-1145 2242-2473 2508-3325 3516-3697 3760-3877 4396-5312 5448-6191 6506-6618 6695-8173
HBJHJ44	116	621723	AC023648	19782	1-274
HBJHM57	118	973257	AC055803	19783	1-539
HBJHM57	118	973257	AC055803	19784	1-427
HBJHM57	118	973257	AC055803	19785	1-274

HBJHM76	119	715512	AL118558	19786	1-380
HBJHM76	119	715512	AL118558	19787	1-557 745-946
HBJHM76	119	715512	AL118558	19788	1-386
HBJHO11	121	964943	AC046185	19789	1-440 462-592 848-1441
HBJHO11	121	964943	AC018571	19790	1-440 462-592 848-1441
HBJHO11	121	964943	AC015651	19791	1-440 462-592 848-1441
HBJHO11	121	964943	AC046185	19792	1-1052 1137-1554 1594-1822 2098-2460
HBJHO11	121	964943	AC018571	19793	1-619
HBJHO11	121	964943	AC018571	19794	1-1052 1137-1554 1594-1822 2098-2460
HBJHO11	121	964943	AC015651	19795	1-619
HBJHO11	121	964943	AC015651	19796	1-1052 1137-1554 1594-1822 2098-2459
HBJHO60	122	975186	AL121820	19797	1-403
HBJHO60	122	975186	AL121820	19798	1-455
HBJHR56	123	686717	AC026328	19799	1-707
HBJHR56	123	686717	AC011326	19800	1-707
HBJHR56	123	686717	AC026328	19801	1-339
HBJHR56	123	686717	AC026328	19802	1-102
HBJHR56	123	686717	AC011326	19803	1-102
HBJHR56	123	686717	AC011326	19804	1-339
HBJHV93	125	881606	AC027557	19805	1-662
HBJHV93	125	881606	AL356262	19806	1-662
HBJHV93	125	881606	AC027557	19807	1-1228
HBJHV93	125	881606	AL356262	19808	1-1228
HBJHX08	126	958970	AL159164	19809	1-384
HBJHX08	126	958970	AL121941	19810	1-384
HBJHX08	126	958970	AL159164	19811	1-440
HBJHX08	126	958970	AL121941	19812	1-440
HBJHZ03	127	923733	AC027008	19813	1-562
HBJHZ03	127	923733	AC027008	19814	1-264
HBJHZ08	128	958969	AL157935	19815	1-1065
HBJHZ08	128	958969	AL157935	19816	1-758
HBJHZ08	128	958969	AL157935	19817	1-1031
HBJIA19	129	920881	AL359880	19818	1-693
HBJIA92	130	494812	AC007005	19819	1-426
HBJIA92	130	494812	AC007005	19820	1-479
HBJIA92	130	494812	AC007005	19821	1-924
HBJID21	131	670642	AC011612	19822	1-555
HBJID21	131	670642	AC073099	19823	1-555
HBJID21	131	670642	AC011612	19824	1-152 869-1054

					1863-2288
					2723-3094
					3356-3435
					4142-4420
					4694-5758
					6000-6152
					6459-6741
					7520-8689
HBJID21	131	670642	AC011612	19825	1-561
HBJID21	131	670642	AC073099	19826	1-561
HBJID21	131	670642	AC073099	19827	1-152
					869-1054
					1863-2284
					2719-3090
					3343-3431
					4138-4416
					4690-5753
					5995-6147
					6454-6736
					7515-8684
					9020-9146
					9249-9406
					10217-10749
					12691-13274
					13828-14038
					14363-14812
					15918-16613
					16764-16909
					17946-18246
					19921-20386
					22275-22898
					23842-25577
HBJIL11	133	966701	AC007564	19828	1-475
HBJIL11	133	966701	AC007564	19829	1-476
HBJIL53	135	971136	AL356273	19830	1-535
HBJIL53	135	971136	AL356273	19831	1-320
HBJIL53	135	971136	AL356273	19832	1-166
					514-644
					1028-1685
					1982-3144
					3435-4099
					4640-4876
					5013-5854
					5857-6266
					6404-6685
					7094-7657
					7772-7976
					8288-8547
					8731-9316
					9327-11445
HBJIL75	136	698405	AC069208	19833	1-414
HBJIL75	136	698405	AC069208	19834	1-623
HBJIL88	137	721859	AL158801	19835	1-810
HBJIL88	137	721859	AL158801	19836	1-514
					551-3133
HBJIO70	138	725097	AL353721	19837	1-236
HBJIO70	138	725097	AL135929	19838	1-236

HBJIO70	138	725097	AL353721	19839	1-223 233-535
HBJIO70	138	725097	AL135929	19840	1-224 234-533
HBJIO79	139	774812	AC012057	19841	1-431
HBJIO79	139	774812	AC012057	19842	1-443
HBJIR58	140	735365	AC015659	19843	1-430
HBJIR58	140	735365	AC015659	19844	1-539
HBJIR58	140	735365	AC015659	19845	1-249
HBJIY20	141	669519	AC027646	19846	1-165 261-429
HBJIY86	142	725084	AC024723	19847	1-683
HBJIY86	142	725084	AL161732	19848	1-2138 3314-3412 4672-5058 5894-6130 6716-7111 8072-8210 8653-8837 8988-9273 9904-10283 10570-11494 11529-12260 14872-14970 15221-15304 19231-19387 19728-20409 20479-20913 22756-23365 23383-23843 24082-26110
HBJIY86	142	725084	AC024723	19849	1-182 336-621 1252-1631 1918-2841 2876-3607 6218-6316 6567-6650 10577-10733
HBJIY86	142	725084	AC024723	19850	1-431
HBJIY86	142	725084	AL161732	19851	1-84
HBJJB02	143	919379	AC007488	19852	1-734
HBJJB02	143	919379	AC037196	19853	1-447
HBJJB02	143	919379	AC007488	19854	1-149
HBJJB02	143	919379	AC007488	19855	1-119
HBJJB02	143	919379	AC037196	19856	1-119
HBJJB02	143	919379	AC037196	19857	1-484
HBJJB04	144	878974	AL139807	19858	1-1337
HBJJB04	144	878974	AL139807	19859	1-487
HBJJB11	145	965016	AC046198	19860	1-892
HBJJB11	145	965016	AC007319	19861	1-892
HBJJB11	145	965016	AC046198	19862	1-570
HBJJB11	145	965016	AC007319	19863	1-570
HBJJB26	147	681342	AC006391	19864	1-228 1393-1830 2379-2510

505

HBJJB26	147	681342	AL357494	19865	1-228 1393-1830 2379-2510
HBJJB26	147	681342	AC006391	19866	1-242
HBJJB26	147	681342	AL357494	19867	1-516
HBJJB26	147	681342	AL357494	19868	1-242
HBJJB40	148	710873	AC011319	19869	1-681
HBJJB61	149	741615	AL391121	19870	1-575
HBJJB61	149	741615	AL391121	19871	1-162
HBJJB74	151	765406	AL139242	19872	1-438
HBJJB74	151	765406	AL139242	19873	1-386
HBJJB78	152	489438	AL160155	19874	1-438
HBJJB78	152	489438	AL160155	19875	1-607
HBJJD31	153	691780	AC024913	19876	1-480
HBJJD31	153	691780	AC007957	19877	1-1043
HBJJD31	153	691780	AC023490	19878	1-480
HBJJD31	153	691780	AC024913	19879	1-509
HBJJD31	153	691780	AC007957	19880	1-305
HBJJD31	153	691780	AC007957	19881	1-131
HBJJD31	153	691780	AC023490	19882	1-509
HBJJH48	155	721473	AL137881	19883	1-526
HBJJN13	156	915977	AC012459	19884	1-444 1193-1285 2895-3316 5764-5869 6023-6285 7002-7589 8350-10088
HBJJN13	156	915977	AC012459	19885	1-2872
HBJJS46	158	718894	AC026504	19886	1-775
HBJJS46	158	718894	AC022936	19887	1-775
HBJJS46	158	718894	AC026504	19888	1-472
HBJJS46	158	718894	AC022936	19889	1-507
HBJJU62	159	664298	AC053504	19890	1-330 585-1004 1930-2208
HBJJU62	159	664298	AL365356	19891	1-705 960-1379 2305-2731 4018-4371 5893-5989 6384-10554
HBJJU62	159	664298	AL365356	19892	1-451 4551-4791 5447-5676 8863-8925
HBJJU81	160	671611	AC009648	19893	1-90 545-660 1923-2668 2696-3201 3212-3569 3813-4247 4546-4980 6316-6455 7858-8124 8670-9210

					9279-9580 11208-11789
HBJJU81	160	671611	AC010815	19894	1-106 1509-1782 2335-2876 2933-3245 4873-5454
HBJJU81	160	671611	AP002502	19895	1-388
HBJJU81	160	671611	AP002007	19896	1-106 1612-1759 2336-2880 2937-3249 4877-5458
HBJJU81	160	671611	AP002502	19897	1-313
HBJJX04	161	949592	AC025164	19898	1-1683
HBJJX04	161	949592	AC012013	19899	1-1683
HBJJX04	161	949592	AC025164	19900	1-450
HBJJX04	161	949592	AC012013	19901	1-450
HBJJX11	162	847854	AC022146	19902	1-419
HBJJX11	162	847854	AC022146	19903	1-228
HBJJX11	162	847854	AC022146	19904	1-252
HBJJX44	163	657242	AC015456	19905	1-550
HBJJX44	163	657242	AC009993	19906	1-3143
HBJJX44	163	657242	AC009993	19907	1-350
HBJKA75	164	682250	AL360001	19908	1-259
HBJKA75	164	682250	AL139817	19909	1-259
HBJKA75	164	682250	AL139817	19910	1-731
HBJKD68	168	676330	AP002388	19911	1-257
HBJKE63	169	744847	AC016405	19912	1-823
HBJKE63	169	744847	AC016405	19913	1-711
HBJKE63	169	744847	AC016405	19914	1-760
HBJKF06	170	935033	AC020605	19915	1-917
HBJKF06	170	935033	AC010353	19916	1-917
HBJKF06	170	935033	AC020605	19917	1-298
HBJKF06	170	935033	AC010353	19918	1-298
HBJKF86	171	714449	AL160287	19919	1-453
HBJKF86	171	714449	AL355798	19920	1-453
HBJKF86	171	714449	AL160287	19921	1-171
HBJKF86	171	714449	AL355798	19922	1-857
HBJKF86	171	714449	AL160287	19923	1-857
HBJKI26	172	489160	AC048342	19924	1-931
HBJKI26	172	489160	AC025077	19925	1-931
HBJKI26	172	489160	AC018658	19926	1-931
HBJKI26	172	489160	AC048342	19927	1-457
HBJKI26	172	489160	AC025077	19928	1-457
HBJKI26	172	489160	AC018658	19929	1-457
HBJKI26	172	489160	AC018658	19930	1-412
HBJLB78	173	588085	AC010832	19931	1-537
HBJLB78	173	588085	AC011962	19932	1-407
HBJLB78	173	588085	AC011962	19933	1-104 848-949 965-1052 1652-1886 2091-2602 2973-5283 5421-5922

					6712-7152
					7172-7330
HBJLC51	174	784830	AC022399	19934	1-734
					1441-2849
HBJLC51	174	784830	AP000893	19935	1-735
					1442-2850
HBJLC51	174	784830	AP002397	19936	1-971
HBJLD73	176	765356	AC024661	19937	1-428
HBJLD73	176	765356	AC055739	19938	1-424
HBJLD73	176	765356	AC068978	19939	1-424
HBJLD73	176	765356	AC055739	19940	1-197
HBJLD73	176	765356	AC068978	19941	1-197
HBJLE82	177	735748	AC069514	19942	1-516
HBJLE82	177	735748	AC069514	19943	1-224
HBJLL07	179	952791	AL353800	19944	1-285
HBJLL07	179	952791	AL161721	19945	1-285
HBJLL07	179	952791	AL353800	19946	1-282
HBJLL07	179	952791	AL353800	19947	1-654
HBJLL07	179	952791	AL161721	19948	1-654
HBJLL07	179	952791	AL161721	19949	1-282
HBJLL13	180	656721	AC011618	19950	1-791
HBJLL13	180	656721	AC011618	19951	1-283
HBJLL13	180	656721	AC011618	19952	1-172
HBJLL18	181	665874	AP001122	19953	1-292
HBJLL18	181	665874	AP000712	19954	1-374
HBJLL18	181	665874	AP000920	19955	1-374
HBJLL18	181	665874	AP001535	19956	1-374
HBJLL18	181	665874	AP000712	19957	1-666
HBJLL18	181	665874	AP000920	19958	1-665
HBJLL18	181	665874	AP000712	19959	1-101
HBJLL18	181	665874	AP000920	19960	1-101
HBJLL18	181	665874	AP001535	19961	1-665
HBJLL18	181	665874	AP001535	19962	1-101
HBJLL28	182	847840	AC007952	19963	1-88
HBJLL28	182	847840	AL136171	19964	1-61
HBJLL28	182	847840	AC074121	19965	1-88
HBJLL28	182	847840	AC068626	19966	1-101
HBJLL28	182	847840	AC010550	19967	1-127
HBJLL28	182	847840	AC011962	19968	1-102
HBJLL28	182	847840	AC018498	19969	1-149
HBJLL57	183	734522	AC012146	19970	1-1233
HBJLP14	185	657747	AC010925	19971	1-380
HBJLP14	185	657747	AC010925	19972	1-393
HBJLR56	186	843811	AC073828	19973	1-230
HBJLR56	186	843811	AC026378	19974	1-917
HBJLR56	186	843811	AC074159	19975	1-918
HBJMA30	189	661665	AC010736	19976	1-864
HBJMA30	189	661665	AC010736	19977	1-349
HBJMA30	189	661665	AC010736	19978	1-103
HBJMA51	190	725095	AC048338	19979	1-194
HBJMA51	190	725095	AC048338	19980	1-26
					34-111
HBJMA51	190	725095	AC048338	19981	1-370
HBJMC53	191	726491	AC018421	19982	1-323
					530-1040

HBJMD71	192	760155	AC021004	19983	1-87 457-843 2491-2648 3010-3138 3298-3415 5407-5576 6017-6246 6273-6943 8244-8499 8758-12900
HBJMD71	192	760155	AC021004	19984	1-544
HBJMD74	193	975088	AC068352	19985	1-322
HBJMD74	193	975088	AC068352	19986	1-219
HBJME92	194	792110	AC025961	19987	1-464
HBJMF23	195	675692	AC000053	19988	1-392
HBJMF23	195	675692	AC002060	19989	1-392
HBJMF23	195	675692	AC000053	19990	1-376
HBJMF23	195	675692	AC000053	19991	1-324
HBJMF23	195	675692	AC002060	19992	1-376
HBJMF23	195	675692	AC002060	19993	1-324
HBJMF30	196	691179	AL359702	19994	1-2475 2748-2871 3036-3340 3487-3671 4509-4971 5075-5209 5415-6117 6418-7132 7164-8025
HBJMF30	196	691179	AL359702	19995	1-218
HBJMF47	197	720050	AC012192	19996	1-394
HBJMF47	197	720050	AC012192	19997	1-228
HBJMI76	198	720047	AC073440	19998	1-432
HBJMI76	198	720047	AP001544	19999	1-432
HBJMI76	198	720047	AP001548	20000	1-432
HBJMI76	198	720047	AP001493	20001	1-432
HBJMI76	198	720047	AP001399	20002	1-432
HBJMK34	199	935952	AL139242	20003	1-2041
HBJMK34	199	935952	AL139242	20004	1-72 570-814 1875-2040 3530-3978 5444-5652 7110-7613
HBJMK94	200	794129	AC009600	20005	1-387 675-940 4481-4582 5032-5404 7099-7273 8504-8804 8903-9406 9865-10093 11788-12044 13222-13642 14214-14391 15140-15246 15325-16200

					16259-16748
HBJML69	202	864004	AL031657	20006	1-692
HBJML69	202	864004	AL031657	20007	1-265
HBJML69	202	864004	AL031657	20008	1-416
HBJMM72	203	760833	AC023984	20009	1-114 908-1302 1819-1873 3447-3547 5920-6088 7953-8319
HBJMM72	203	760833	AC023984	20010	1-106
HBJMN75	204	699060	AC002368	20011	1-465
HBJMR15	206	964484	AC036162	20012	1-40 426-929 1022-2118
HBJMR15	206	964484	AP001089	20013	1-40 426-929 1022-2118
HBJMR15	206	964484	AP001089	20014	1-298 799-1156
HBJMR15	206	964484	AC036162	20015	1-298 799-1156
HBJMT52	208	726480	AC009118	20016	1-639
HBJMT52	208	726480	AC009118	20017	1-427
HBJMW20	210	669030	AL158161	20018	1-1504
HBJMW20	210	669030	AL158161	20019	1-293
HBJMW20	210	669030	AL158161	20020	1-432
HBJMX21	212	933143	AC044881	20021	1-389
HBJMX21	212	933143	AC026291	20022	1-389
HBJMX21	212	933143	AC044881	20023	1-610 661-1115
HBJMX21	212	933143	AC026291	20024	1-459
HBJMX21	212	933143	AC044881	20025	1-459
HBJMX21	212	933143	AC026291	20026	1-610 661-1114
HBJNC89	216	786707	AC020834	20027	1-355
HBJNC89	216	786707	AC020834	20028	1-1294
HBMBC35	220	921417	AC004702	20029	1-421
HBMBC35	220	921417	AC004702	20030	1-390
HBMBC35	220	921417	AC004702	20031	1-463
HBMBC91	221	506594	AC015624	20032	1-575
HBMBC91	221	506594	AC015627	20033	1-579
HBMBE84	223	578869	AC023231	20034	1-312
HBMBE84	223	578869	AC005905	20035	1-312
HBMBE84	223	578869	AC005905	20036	1-348
HBMBI06	227	935819	AC048340	20037	1-765
HBMBI06	227	935819	AC055713	20038	1-425
HBMBI06	227	935819	AC048340	20039	1-392
HBMBI06	227	935819	AC055713	20040	1-292 437-1518 1525-1830 2226-2268 3345-3485 3500-3535
HBMBI06	227	935819	AC055713	20041	1-392
HBMBN32	228	775670	AC012522	20042	1-910

					1322-1464
					1582-1700
					2188-2757
					3153-3699
					4380-4633
					4668-5318
					5364-5795
					6463-6906
					6951-10538
					10622-10743
					11799-12025
HBMBN32	228	775670	AC012522	20043	1-102
HBMBU24	234	677240	AP001886	20044	1-101 366-400
HBMBU24	234	677240	AP001273	20045	1-101 366-400
HBMBU24	234	677240	AP000792	20046	1-101 366-400
HBMBU38	235	531494	AC009954	20047	1-119 2533-3171 7440-7874 7900-8101 9579-10097 10101-10480 12544-13076 13492-13925 14097-14234 15243-15409 15833-16292 16625-17171 17667-18495
HBMBU38	235	531494	AL031259	20048	1-92 2508-3146 3292-3393 7418-7864 7890-8091 9569-10087 10091-10470 12547-13079 13495-13928 14104-14203 14254-14356 15241-15407 15829-16288 16621-17167 17663-18491
HBMBU38	235	531494	AC009954	20049	1-757 2509-2590 5403-6851 8080-8956 9234-9350 9536-9723
HBMBU38	235	531494	AC009954	20050	1-2944 3707-4265 5226-5330 5694-5783 6122-6823

					6968-7807
					7809-8416
					8585-9878
HBMBU38	235	531494	AL031259	20051	1-2941
					3703-4261
					5223-5327
					5691-5780
					6119-6820
					6965-7804
					7806-8413
					8582-9872
HBMBU38	235	531494	AL031259	20052	1-756
					2508-2589
					5398-6846
					8077-8954
					9232-9348
					9534-9721
HBMBY27	237	574803	AC026673	20053	1-409
HBMCA58	240	736084	AC074366	20054	1-513
HBMCA58	240	736084	AC011152	20055	1-513
HBMCA58	240	736084	AC011152	20056	1-159
HBMCD26	242	847826	AC073378	20057	1-341
HBMCD26	242	847826	AL158046	20058	1-761
HBMCD26	242	847826	AL158046	20059	1-753
HBMCD26	242	847826	AL158046	20060	1-448
HBMCD49	243	723005	AL355822	20061	1-347
HBMCD49	243	723005	AL355822	20062	1-320
HBMCE22	244	674659	AC019027	20063	1-789
HBMCE22	244	674659	AL122035	20064	1-795
HBMCE22	244	674659	AL122035	20065	1-331
HBMCE22	244	674659	AL122035	20066	1-924
HBMCH88	246	711318	AL358794	20067	1-360
HBMCH88	246	711318	AL358794	20068	1-88
HBMCQ14	248	658484	AL133551	20069	1-481
					2685-3013
					4209-4455
					5412-5533
					6734-6860
					7208-7625
					11276-12186
					13459-13602
					18077-18427
					18722-18825
					19945-20053
					20698-21087
					22136-22816
					23378-23452
					24583-24773
					27452-27791
					27805-28364
					28583-29053
					29390-29512
					29807-30026
					30904-31465
					31593-33718
HBMCS34	249	703438	AL353801	20070	1-589
HBMCS34	249	703438	AL353801	20071	1-297

					371-646
HBMCS77	250	465070	AC068344	20072	1-491
HBMCS77	250	465070	AP002400	20073	1-121
					673-805
					2464-3083
					3788-4651
					4908-4990
HBMCS77	250	465070	AC068154	20074	1-492
HBMCS77	250	465070	AP001450	20075	1-132
					1712-1830
					3166-3329
					5265-5445
					5996-6129
					7790-8409
					9114-9977
					10329-10408
					11960-12502
					13758-14136
HBMCS77	250	465070	AP001847	20076	1-132
					1714-1832
					3168-3331
					5269-5446
					5997-6129
					7787-8406
					9111-9974
					10231-10324
HBMCS77	250	465070	AP001452	20077	1-132
					1713-1831
					3167-3330
					5265-5445
					5996-6129
					7786-8405
					9110-9973
					10230-10322
					11862-12404
					13659-14387
HBMCS77	250	465070	AP001450	20078	1-391
HBMCS77	250	465070	AP001847	20079	1-391
HBMCS77	250	465070	AP001452	20080	1-391
HBMCU92	252	529580	AC023058	20081	1-516
HBMCU92	252	529580	AC024056	20082	1-1456
					1897-2245
					2315-2862
					3701-3808
					4102-4441
					5439-6106
HBMCU92	252	529580	AC018506	20083	1-590
					841-1404
					1569-1630
					3507-3624
					5344-5700
					5921-6112
					6791-7053
					7442-8012
					8491-9098
					9471-9927
					10948-11053

					11380-11589 11740-12120 12368-12671 12827-13009 13622-13925 13932-14299 14680-15114 15978-16503 16708-18163 18604-18952 19022-19569 20408-20515 22146-22813
HBMCU92	252	529580	AC023058	20084	1-526
HBMCU92	252	529580	AC024056	20085	1-239
HBMCU92	252	529580	AC024056	20086	1-526
HBMCU92	252	529580	AC018506	20087	1-454
HBMCU92	252	529580	AC018506	20088	1-307
HBMCZ11	253	967099	AC015976	20089	1-315
HBMCZ11	253	967099	AC023925	20090	1-315
HBMCZ11	253	967099	AC015976	20091	1-442
HBMCZ11	253	967099	AC023925	20092	1-442
HBMCZ27	254	683436	AC026265	20093	1-259
HBMCZ32	255	855694	AC007204	20094	1-339
HBMCZ32	255	855694	AC007204	20095	1-450 607-1822
HBMCZ32	255	855694	AC007204	20096	1-1617
HBMDA51	256	691116	AC023188	20097	1-334
HBMDA51	256	691116	AC023188	20098	1-804
HBMDA51	256	691116	AC023188	20099	1-108 1869-3356
HBMDC03	257	924183	AC011721	20100	1-419
HBMDC03	257	924183	AC009634	20101	1-419
HBMDC03	257	924183	AC011721	20102	1-1207
HBMDC03	257	924183	AC009634	20103	1-283
HBMDC03	257	924183	AC011721	20104	1-283
HBMDC03	257	924183	AC009634	20105	1-1207
HBMDC16	258	888206	AL139288	20106	1-295
HBMDC16	258	888206	AL139288	20107	1-1066
HBMDD36	260	861576	AC027529	20108	1-317
HBMDD36	260	861576	AC025162	20109	1-317
HBMDD36	260	861576	AC027529	20110	1-314 352-575 577-1124 1171-1470 1649-1727 2141-2227 2318-2363
HBMDD36	260	861576	AC025162	20111	1-189 639-712 1030-1163 1598-1674 1754-2106 2133-2312 2537-2610 2807-2927

					3036-3795 3830-4053 4055-4602 4649-4948 5127-5207 5619-5705 5796-5841
HBMDD36	260	861576	AC027529	20112	1-511
HBMDD36	260	861576	AC025162	20113	1-876
HBMDD59	261	739316	AC007655	20114	1-269
HBMDD59	261	739316	AC007655	20115	1-1001
HBMDE19	262	657382	AC022975	20116	1-532
HBMDE19	262	657382	AC004814	20117	1-37 1393-1868 1943-2074 2967-3102 3328-4579 5296-5392 5419-6421 6601-6644 6783-6919 7107-7193 7218-8159 8764-9260 10589-11223 11880-12160 14176-14429 14606-15155 15890-16012 16104-16209 16690-17176 18554-18901 19996-20112 20833-20990 22664-22916
HBMDE19	262	657382	AC004814	20118	1-96
HBMDF55	263	952830	AC022966	20119	1-1596
HBMDF55	263	952830	AC022966	20120	1-129
HBMDH79	264	805554	AC022528	20121	1-713 2894-3439 3458-3720 3739-3763 8885-9335 10431-10536 12622-13014 15721-16041 16532-16826 18292-19094 19541-19969
HBMDH79	264	805554	AC022528	20122	1-304
HBMDJ36	266	721673	AJ009616	20123	1-202
HBMDJ36	266	721673	AC005971	20124	1-202
HBMDJ36	266	721673	AJ009616	20125	1-271
HBMDJ36	266	721673	AC005971	20126	1-323
HBMDS17	269	796050	AC024641	20127	1-530
HBMDS17	269	796050	AC068533	20128	1-530
HBMDS17	269	796050	AC024641	20129	1-337

HBMDS17	269	796050	AC068533	20130	1-262
HBMDS17	269	796050	AC024641	20131	1-262
HBMDS17	269	796050	AC068533	20132	1-337
HBMDS64	270	746572	AC055755	20133	1-849 1460-1641 1683-2081 2658-3958 4464-4798
HBMDS64	270	746572	AP000645	20134	1-861
HBMDS64	270	746572	AC055755	20135	1-514
HBMDS64	270	746572	AC055755	20136	1-460
HBMDS64	270	746572	AP000645	20137	1-405 568-1081
HBMSB19	271	847800	AC026518	20138	1-290
HBMSB19	271	847800	AC026518	20139	1-307
HBMSK92	272	531156	AC011973	20140	1-402
HBMSK92	272	531156	AC040945	20141	1-402
HBMSK92	272	531156	AC016999	20142	1-125
HBMSO15	273	847795	AC024074	20143	1-471 486-1044
HBMSO15	273	847795	AC024074	20144	1-492
HBMSO39	274	531158	AC006504	20145	1-344
HBMSO39	274	531158	AC006504	20146	1-178
HBMTG05	276	932497	AC025806	20147	1-242
HBMTG05	276	932497	AC025806	20148	1-341
HBMTM75	277	574515	AL353602	20149	1-113
HBMTM75	277	574515	AF209070	20150	1-155 333-425
HBMTM75	277	574515	AF209070	20151	1-104
HBMTM75	277	574515	AF209070	20152	1-118
HBMTP84	278	703844	AL137129	20153	1-1627
HBMTP84	278	703844	AL137129	20154	1-421
HBMTP84	278	703844	AL137129	20155	1-1156
HBMTW58	280	806670	AC008747	20156	1-357 465-798 820-1371 1637-1795 2334-2630 3104-3242 3286-3547 3979-4271 4486-6321 7000-7479
HBMTW58	280	806670	AC008747	20157	1-406
HBMTW58	280	806670	AC008747	20158	1-351
HBMTX84	282	537385	AL158213	20159	1-205
HBMTX84	282	537385	AL158213	20160	1-2127
HBMTY82	283	523728	AC036117	20161	1-274
HBMUA62	284	557828	AL138996	20162	1-757
HBMUA62	284	557828	AL138996	20163	1-412
HBMUD12	285	574796	AL122020	20164	1-328
HBMUD12	285	574796	AL122020	20165	1-251
HBMUG57	287	735024	AL136293	20166	1-916
HBMUG57	287	735024	AL136293	20167	1-528
HBMUG57	287	735024	AL136293	20168	1-268
HBMUH62	288	752244	AC008114	20169	1-167

					266-419 2777-3257 3605-4014 4557-4744 5409-5521 5634-6561 7699-8016
HBMUH62	288	752244	AC008114	20170	1-464
HBMUH62	288	752244	AC008114	20171	1-639
HBMUJ84	289	531159	AC027272	20172	1-1403
HBMUJ84	289	531159	AC016586	20173	1-1403
HBMUJ84	289	531159	AC027272	20174	1-156
HBMUJ84	289	531159	AC016586	20175	1-547
HBMUJ84	289	531159	AC027272	20176	1-547
HBMUJ84	289	531159	AC016586	20177	1-324
HBMUK59	290	712591	AC026786	20178	1-454
HBMUK59	290	712591	AC026786	20179	1-456
HBMUO12	293	417210	AL022313	20180	1-337 3275-3416 3702-3761 3789-4346 4678-4817 5426-5518 6130-6208 7676-8161 8344-8443 8722-8841 9247-10011 10488-10650 11981-12464 12622-12711 12791-13240 13285-13619 14613-15627 15868-16325 16558-17064 17148-17517 17623-17912 17963-18564
HBMUO12	293	417210	AL022313	20181	1-140
HBMUO90	294	928078	AC008567	20182	1-442 2267-2417 3346-3434 4656-4785 5340-5437 5697-5780 5811-6170 7555-7645 8982-9212 9435-10926
HBMUO90	294	928078	AC008567	20183	1-767
HBMUO90	294	928078	AC008567	20184	1-593 729-994
HBMUP35	295	531101	AC009130	20185	1-368
HBMUP35	295	531101	AC009093	20186	1-366
HBMUP35	295	531101	AC007615	20187	1-366
HBMUP35	295	531101	AC009093	20188	1-76

					171-599 2692-3263
HBMUP35	295	531101	AC007615	20189	1-76 171-599 2692-3263
HBMUT83	296	793052	AC017034	20190	1-228
HBMUT83	296	793052	AC017034	20191	1-163
HBMUV03	297	924916	AF216674	20192	1-587
HBMUV03	297	924916	AC051642	20193	1-587
HBMUV03	297	924916	AF216674	20194	1-1169
HBMUV03	297	924916	AC051642	20195	1-666
HBMUV03	297	924916	AF216674	20196	1-666
HBMUV03	297	924916	AC051642	20197	1-1169
HBMUY32	298	959968	AC073347	20198	1-402
HBMUY32	298	959968	AC073237	20199	1-404
HBMUY32	298	959968	AC073347	20200	1-368
HBMUY32	298	959968	AC073347	20201	1-1239
HBMUY32	298	959968	AC073237	20202	1-1238
HBMUY32	298	959968	AC073237	20203	1-368
HBMUZ96	299	574522	AC027436	20204	1-217
HBMUZ96	299	574522	AC026053	20205	1-217
HBMUZ96	299	574522	AC027436	20206	1-217
HBMUZ96	299	574522	AF161326	20207	1-217
HBMUZ96	299	574522	AC022262	20208	1-797 2417-2631 3781-3997 5774-5862 5864-6192 14342-14714 15388-15925 17245-17496 17801-18454 20879-21165 21765-22481 23649-24248 25816-25983 27115-27246 28306-28431 33092-33393 33904-34036 34043-34295 35283-35905 36805-36930 37389-37735 38208-38351 39019-39139 39211-39353
HBMUZ96	299	574522	AL020995	20209	1-797 2417-2632 3782-3998 5774-5862 5879-6191 14346-14718 15392-15929 17249-17500 17805-18458 20882-21168

					21768-22484 23652-24251 25819-25986 27118-27249 28309-28434 33096-33397 33908-34040 34047-34299 35287-35909 36809-36934 37393-37739 38212-38355 39024-39144 39216-39358
HBMUZ96	299	574522	AC026053	20210	1-89
HBMUZ96	299	574522	AF161326	20211	1-815
HBMUZ96	299	574522	AF161326	20212	1-798 2412-2633
HBMUZ96	299	574522	AC022262	20213	1-124
HBMUZ96	299	574522	AC022262	20214	1-756
HBMUZ96	299	574522	AL020995	20215	1-124
HBMUZ96	299	574522	AL020995	20216	1-756
HBMVA83	300	529815	AC022403	20217	1-67 656-941 1074-1158 1316-1408
HBMVA83	300	529815	AC027538	20218	1-67 656-941 1074-1158 1316-1521 2280-2736 4967-5092 5640-5689 5798-6065
HBMVA83	300	529815	AC022403	20219	1-457
HBMVA83	300	529815	AC027538	20220	1-172
HBMVA83	300	529815	AC022403	20221	1-192
HBMVA83	300	529815	AC027538	20222	1-192
HBMVE14	301	545170	AP000642	20223	1-154 320-1171 1194-1900 2734-3767
HBMVE14	301	545170	AP000585	20224	1-154 320-744 799-1172 1201-1907 2741-3865
HBMVE14	301	545170	AC011768	20225	1-147 723-1272 1330-1807 2396-2806 3301-3671 3965-4669 6926-7079 7245-8097 8120-8826 9660-10785

HBMVE14	301	545170	AC022845	20226	1-62
					1250-1737
					3246-3367
					3667-4009
					4978-5149
					5327-5646
					6950-7052
					7210-7646
					9352-9624
					10200-10749
					10807-11284
					11873-12283
					12777-13147
					13441-14145
					16403-16556
					16722-17574
					17597-18303
					19137-20261
HBMVE14	301	545170	AC021329	20227	1-103
					261-699
					2404-2676
					3252-3801
					3859-4336
					4925-5335
					5830-6200
					6494-7198
					9455-9608
					9774-10626
					10649-11355
					12190-13315
HBMVE14	301	545170	AP000585	20228	1-194
HBMVE14	301	545170	AC011768	20229	1-193
HBMVE14	301	545170	AC022845	20230	1-194
HBMVE14	301	545170	AC021329	20231	1-193
HBMVI79	302	781686	AC027687	20232	1-127
					456-1085
					1391-1501
					1775-2091
					2114-3123
					3370-3480
					3798-5339
					5679-6396
					6430-6953
					6969-7520
					8160-8414
					8542-9736
					9993-10695
HBMVI79	302	781686	AC020663	20233	1-2114
					3690-3935
					7390-7533
					7970-8096
					8425-9054
					9616-10048
					10083-11092
					11339-11449
					11767-13308
					13648-14365

					14399-14725 15214-15489 16129-16383 16511-16946 16963-17705 17962-18664
HBMVI79	302	781686	AC027687	20234	1-129
HBMVI79	302	781686	AC020663	20235	1-542 751-879 977-1026 1110-1224 1608-1702 2721-2823 3173-3486 3540-3618 3649-4283 4305-4360 4542-4626 5423-5496 5565-5691
HBMVO02	304	920759	AL109839	20236	1-988
HBMVO02	304	920759	AL109839	20237	1-140
HBMVO02	304	920759	AL109839	20238	1-248
HBMWA31	305	529678	AC061707	20239	1-438 580-1572
HBMWA31	305	529678	AC061707	20240	1-174
HBMWA31	305	529678	AC061707	20241	1-153
HBMWA57	306	526863	AC002470	20242	1-463
HBMWA57	306	526863	AC002470	20243	1-273
HBMWA57	306	526863	AC002470	20244	1-559
HBMWI35	307	706033	AC018924	20245	1-1030 1587-1913 2071-2167 3478-3586
HBMWJ01	308	959223	AL162413	20246	1-319 1765-1899 3060-3199 3261-3298 3300-3513 4678-5485 7620-7747 8148-8250 8881-9328 9576-10100 10395-10448 11361-11786 14218-14541 15132-15580
HBMWJ01	308	959223	AC022702	20247	1-890 901-1702
HBMWJ01	308	959223	AC025796	20248	1-887 898-1705
HBMWJ01	308	959223	AC022702	20249	1-254
HBMWJ01	308	959223	AC022702	20250	1-239
HBMWJ01	308	959223	AC025796	20251	1-317
HBMWJ01	308	959223	AC025796	20252	1-113
HBMWL30	309	936058	AC009951	20253	1-336

HBMWL30	309	936058	AC009951	20254	1-489
HBMWL30	309	936058	AC009951	20255	1-307
HBMWL91	310	529837	AC011336	20256	1-216
HBMWL91	310	529837	AC009017	20257	1-216
HBMWL91	310	529837	AC011336	20258	1-1207
HBMWL91	310	529837	AC011336	20259	1-982
HBMWL91	310	529837	AC009017	20260	1-1464
HBMWQ85	311	765109	AC073949	20261	1-524
HBMWQ85	311	765109	AC010087	20262	1-583 2197-2888
HBMWQ85	311	765109	AC073949	20263	1-404
HBMWQ85	311	765109	AC010087	20264	1-404
HBMWX74	313	573336	AC015852	20265	1-340
HBMWZ14	314	573335	AC073320	20266	1-371
HBMWZ14	314	573335	AC073320	20267	1-392
HBMWZ16	315	712832	AC022243	20268	1-878 1129-1408 2239-3441 4063-4304 5226-5466 6112-6365 6627-6745 7066-7668 7805-7958 8030-9326 13458-13561 13696-13982
HBMWZ16	315	712832	AC022243	20269	1-191
HBMWZ94	316	573348	AC011930	20270	1-334
HBMWZ94	316	573348	AC021701	20271	1-334
HBMWZ94	316	573348	AC011930	20272	1-363
HBMWZ94	316	573348	AC011930	20273	1-169
HBMWZ94	316	573348	AC021701	20274	1-363
HBMWZ94	316	573348	AC021701	20275	1-169
HBMXE31	317	573323	AC010502	20276	1-107
HBMXE31	317	573323	AC023779	20277	1-107
HBMXE31	317	573323	AC010502	20278	1-225
HBMXE31	317	573323	AC023779	20279	1-225
HBMXG08	319	959766	AL365218	20280	1-302 986-1942 2159-2940
HBMXG08	319	959766	AL160287	20281	1-957
HBMXG08	319	959766	AL160287	20282	1-762
HBMXG08	319	959766	AL160287	20283	1-289 974-1275
HBMXL10	321	968054	AL354926	20284	1-387
HBMXL10	321	968054	AL354926	20285	1-146
HBMXN39	323	705578	AC007406	20286	1-903
HBMXN39	323	705578	AC007406	20287	1-210
HBMXN39	323	705578	AC007406	20288	1-137 729-1311 2444-2560 5349-5545 7501-7585 7959-8289 10599-11042

					11170-11305 11810-12116 13270-13384 15916-16273 19949-20062 21183-21318 21716-22106 22372-22471 23138-23500 24413-24575 26373-26926 27291-27435
HBMXO08	325	959768	AL159981	20289	1-433
HBMXO08	325	959768	AL160155	20290	1-433
HBMXO08	325	959768	AL159981	20291	1-340
HBMXO08	325	959768	AL159981	20292	1-231
HBMXO08	325	959768	AL160155	20293	1-340
HBMXO08	325	959768	AL160155	20294	1-231
HBMXP90	326	574802	AC006055	20295	1-975 1001-1658 3268-3377 5231-5317 5881-6170 6180-6546 6750-10147 10463-11127
HBMXP90	326	574802	AC006055	20296	1-344
HBMXS38	328	706039	AC027320	20297	1-886
HBMXS38	328	706039	AC008475	20298	1-886
HBMXS38	328	706039	AC027320	20299	1-340
HBMXS38	328	706039	AC008475	20300	1-340
HBMXU37	329	787155	AC004472	20301	1-511 725-1358 1371-2631 2712-3213 4100-4503 4587-4770 4808-5212 5835-6000 6587-6723 7277-7601 8372-8506 9066-9684 10294-10443 10505-10671 10981-11097 11489-11657 11712-11975 12060-12370 12847-13177 13448-13606 14394-14908 15130-16605
HBMXU37	329	787155	AC004472	20302	1-1171 1583-2215 2318-2866 2918-3060

					3218-3349
					3450-3598
					3737-3890
					4135-4250
					4291-4358
					4565-4859
					4999-5043
					5226-5438
					5656-6488
HBMXW13	330	657241	AC027092	20303	1-383
HBTAE07	332	953607	AC025824	20304	1-145
HBTAE07	332	953607	AP002344	20305	1-311
HBTAE07	332	953607	AC011768	20306	1-287
HBTAE07	332	953607	AC022802	20307	1-287
HBTAE07	332	953607	AP000826	20308	1-304
HBTAE07	332	953607	AC012118	20309	1-292
HBTAE07	332	953607	AC019275	20310	1-290
HBTAE07	332	953607	AC069581	20311	1-250
HBTAE07	332	953607	AP001840	20312	1-310
HBTAE07	332	953607	AP000926	20313	1-201
HBTAE07	332	953607	AC009859	20314	1-235
HBTAE07	332	953607	AC044899	20315	1-288
HBTAE07	332	953607	AP002353	20316	1-252
HBTAE07	332	953607	AC015992	20317	1-239
HBTAE07	332	953607	AC025829	20318	1-288
HBTAE07	332	953607	AP002365	20319	1-234
HBTAE07	332	953607	AC025884	20320	1-283
HBTAE07	332	953607	AL139382	20321	1-285
HBTAE07	332	953607	AC013382	20322	1-156
HBTAE07	332	953607	AP002368	20323	1-184
HBTAE07	332	953607	AP002763	20324	1-127
HBTAE07	332	953607	AC027146	20325	1-301
HBTAE07	332	953607	AC025054	20326	1-301
HBTAE07	332	953607	AC073118	20327	1-268
HBTAE07	332	953607	AC024490	20328	1-232
HBTAE07	332	953607	AC021834	20329	1-233
HBTAE07	332	953607	AC023137	20330	1-297
HBTAE07	332	953607	AC024701	20331	1-187
HBTAE07	332	953607	AC024443	20332	1-196
HBTAE07	332	953607	AC011039	20333	1-231
HBTAE07	332	953607	AC010985	20334	1-275
HBTAE07	332	953607	AC026785	20335	1-238
HBTAE07	332	953607	AP001098	20336	1-134
HBTAE07	332	953607	AC025793	20337	1-291
HBTAE07	332	953607	AP001791	20338	1-276
HBTAE07	332	953607	AL390024	20339	1-310
HBTAE07	332	953607	AC027479	20340	1-290
HBTAE07	332	953607	AP001456	20341	1-235
HBTAE07	332	953607	AP000881	20342	1-303
HBTAE07	332	953607	AC009144	20343	1-229
HBTAE07	332	953607	AC013733	20344	1-299
HBTAE07	332	953607	AP001097	20345	1-278
HBTAE07	332	953607	AC018963	20346	1-696
HBTAE07	332	953607	AC010858	20347	1-230
HBTAE07	332	953607	AC008521	20348	1-681
HBTAE07	332	953607	AL390024	20349	1-211

					545-842
HBTAE07	332	953607	AP001456	20350	1-131
HBTAE07	332	953607	AP000881	20351	1-49
HBTAE07	332	953607	AP001097	20352	1-118
HBTAE07	332	953607	AC018963	20353	1-178
HBTAE07	332	953607	AC008521	20354	1-488
HBTAE07	332	953607	AC027146	20355	1-160
HBTAE07	332	953607	AC018963	20356	1-296
HBTAE07	332	953607	AC008521	20357	1-152
HBUAG42	333	676856	AC023671	20358	1-84 522-1376 1391-2022 2336-2691 2770-2873 3296-3457 3833-4014 4629-4743 5509-5600 5763-5911 5991-6156 6565-6887 7092-7271 7386-8223
HBUAG42	333	676856	AC023671	20359	1-218
HBUAG42	333	676856	AC023671	20360	1-132
HBYAA17	334	924209	AL163545	20361	1-234
HBYAA17	334	924209	AL162497	20362	1-235
HBYAA17	334	924209	AL163541	20363	1-234
HBYAB40	335	463488	AC073612	20364	1-434
HBYAB40	335	463488	AC078860	20365	1-312
HBYAB40	335	463488	AC011601	20366	1-137 753-876 1276-1426 2139-2316 2563-2861 3065-3612 3690-3800 4624-4758 4858-4980 5337-5705 5867-5982 6557-6675 7659-7842 9146-9333 10836-11491 11814-12235 12409-12584 12635-13130 13274-13608 13789-14222 15257-15381 15466-15667 16183-16277 20273-20385 20653-20757 20891-21842 22155-22259

					22885-24020
					24023-26112
HBYAB40	335	463488	AC073612	20367	1-335
HBYAB40	335	463488	AC078860	20368	1-337
HBYAB40	335	463488	AC011601	20369	1-440
					3319-3739
					4558-4663
					4790-5180
					6022-6108
HCFAA38	336	576731	AC067923	20370	1-635
HCFAA38	336	576731	AC067923	20371	1-390
HCFAC84	337	869259	AL031733	20372	1-680
HCFAC84	337	869259	AL356532	20373	1-680
HCFAC84	337	869259	AL031733	20374	1-1006
					1112-2080
HCFAC84	337	869259	AL356532	20375	1-492
HCFAF63	338	689719	AC068528	20376	1-1067
HCFAF63	338	689719	AC068528	20377	1-108
HCFAF63	338	689719	AC068528	20378	1-175
HCFAT85	339	728254	AC025289	20379	1-505
HCFAT85	339	728254	AC026472	20380	1-505
HCFAT85	339	728254	AC025289	20381 .	1-310
HCFAT85	339	728254	AC026472	20382	1-310
HCFAT85	339	728254	AC025289	20383	1-539
HCFAT85	339	728254	AC026472	20384	1-539
HCFAV46	342	924086	AC025699	20385	1-845
					1240-1932
					2607-2812
					2919-3677
					4881-4998
HCFAV46	342	924086	AL390728	20386	1-845
HCFAV46	342	924086	AC025699	20387	1-1534
HCFAV46	342	924086	AL390728	20388	1-118
HCFAV46	342	924086	AL390728	20389	1-693
HCFAY27	344	784950	AL358433	20390	1-398
HCFAY27	344	784950	AL358433	20391	1-492
HCFAY27	344	784950	AL358433	20392	1-93
HCFBF07	349	953506	AL138499	20393	1-74
					1171-1414
					2003-2145
					5281-5390
					6571-6708
					7273-8042
					8498-8581
					9242-9411
					9823-9893
					11229-11269
					11959-12050
					12418-12490
					12981-13017
					13172-13255
					13739-13807
					16333-16490
					16856-16966
					17025-17457
					19018-19053

					19571-19708
					19739-20018
					20071-20166
					20847-20919
					21057-21542
					21820-21861
					22375-22563
					22606-22687
					23332-23536
					23934-23974
					24441-25133
					25607-26151
					27567-27728
					28089-28180
					30591-30662
					31711-31750
					32025-32303
					32728-33189
					33569-33660
					34582-35243
					36002-36089
					37700-38027
					38479-39379
					39447-39994
					39996-40412
					40939-41175
					42777-42859
					43613-43709
					43834-43926
					44676-44750
					44978-45061
					45219-45304
					45604-46116
					46592-46981
					47116-47969
					49128-49249
					49765-50272
					50400-50495
					50679-50942
					51613-51736
					52713-52789
					54124-54402
					54837-55118
					55215-55764
					56143-56632
HCFBF07	349	953506	AL138499	20394	1-386
					635-1149
HCFBL08	353	959617	AL354946	20395	1-41
					762-958
					1036-1229
					1841-2689
					6376-6527
					7265-7555
					7729-8062
					8067-8243
					9073-9461
					9550-9946

					11409-11923 12059-12160 12473-12650 12813-14160
HCFBL08	353	959617	AL157947	20396	1-291
HCFBL08	353	959617	AL354946	20397	1-374
HCFBL08	353	959617	AL157947	20398	1-41 · 762-958 1036-1229 1839-2687 6380-6512
HCFBL08	353	959617	AL157947	20399	1-334
HCFBN62	354	576126	AC007689	20400	1-153 1140-2145 2759-3077 4148-4256 5962-6039 7173-7313 7686-7891 8268-9084 9265-9473 11417-11520 12256-15181
HCFBN62	354	576126	AL096766	20401	1-153 1141-2145 2759-3077 4148-4256 5962-6039 7216-7316 7689-7894 8626-9085 9266-9474 12257-15185
HCFBN62	354	576126	AC007689	20402	1-140
HCFBN62	354	576126	AC007689	20403	1-115
HCFBN62	354	576126	AL096766	20404	1-200
HCFBN62	354	576126	AL096766	20405	1-110
HCFBO76	356	577218	AF031077	20406	1-401
HCFBO76	356	577218	AF031076	20407	1-58 736-1136 1527-1673 1676-1852 2020-2150 3002-3132 3803-4247 4843-5248
HCFBO76	356	577218	AF031078	20408	1-58 737-1137 1532-1674 1689-1845 2021-2151 3003-3133 3804-4248 4844-5249
HCFBO76	356	577218	AF030876	20409	1-58 737-1137 1532-1674

					1689-1845 2021-2151 3003-3133 3804-4248 4844-5249
HCFBO76	356	577218	AF031077	20410	1-358
HCFBO76	356	577218	AF031077	20411	1-407
HCFBO76	356	577218	AF031076	20412	1-358
HCFBO76	356	577218	AF031078	20413	1-358
HCFBO76	356	577218	AF030876	20414	1-358
HCFBR92	357	576864	AL136525	20415	1-639
HCFBR92	357	576864	AL136525	20416	1-195
HCFBS25	358	828076	AP001332	20417	1-312
HCFBS25	358	828076	AC026293	20418	1-312
HCFBS25	358	828076	AP001332	20419	1-371
HCFBS25	358	828076	AC026293	20420	1-224
HCFBS25	358	828076	AC026293	20421	1-371
HCFBS73	359	506244	AC011175	20422	1-318
HCFBS73	359	506244	AC022695	20423	1-326
HCFBS73	359	506244	AL357516	20424	1-185 1004-1288 1756-1882 2825-3099 4274-4353 5383-5845 6009-6743
HCFBU01	360	916703	AC011340	20425	1-600
HCFBU01	360	916703	AC011422	20426	1-600
HCFBU01	360	916703	AC008408	20427	1-600
HCFBU85	363	576010	AP000165	20428	1-636
HCFBU85	363	576010	AP000315	20429	1-636
HCFBU85	363	576010	AP000118	20430	1-636
HCFBU85	363	576010	AP000165	20431	1-256
HCFBU85	363	576010	AP000315	20432	1-256
HCFBU85	363	576010	AP000118	20433	1-256
HCFBW13	364	828042	AC004013	20434	1-95 1069-1138 1254-1374 1929-2124 2143-2527 2662-2853 4867-5466 5817-5963 6091-6852 7346-8017 8495-9046 9480-9754 10707-10804 11457-11607 13123-13793 14020-14240 14543-14648 16121-16741 16960-17492 17788-17888 18364-18463

					19025-19263 19827-19849 20004-20144 20616-21220 22114-22197 23403-23932 24083-24458 24548-24999
HCFBW13	364	828042	AC004013	20435	1-25 1229-2304 2469-2775 4672-4809 5317-5363
HCFCA31	366	725700	Z97197	20436	1-163 2217-2527 2583-2996 3076-3221 4347-4476 4702-4806 6076-6977 8267-8366 9341-9456 10055-10411 10466-10579 11104-11642 12202-12889 12990-13377 13871-14364 14909-14980 15076-15237 15268-16876
HCFCA31	366	725700	AL022340	20437	1-163 2217-2527 2583-2996 3076-3221 4347-4476 4702-4806 6076-6977 8267-8366 9341-9456 10055-10411 10466-10579 11104-11642 12202-12889 12990-13377 13871-14364 14909-14980 15076-15237 15268-16876
HCFCA31	366	725700	AC063943	20438	1-782 2048-2541 3564-3732 5786-6096 6152-6565 6645-6790 7916-8045 8271-8375

					9647-10547 11837-11936 12897-13011 13611-13967 14022-14135 14660-15198 15758-16445 16546-16933 17427-17920 18466-18537 18633-18794 18825-20433
HCFCA31	366	725700	Z97197	20439	1-1365 1767-2328 2414-2457
HCFCA31	366	725700	AL022340	20440	1-539 576-1364 1766-2327 2413-2456
HCFCA31	366	725700	AC063943	20441	1-1365 1767-2328 2414-2457
HCFCA31	366	725700	AC063943	20442	1-209
HCFCB67	367	751764	AC008635	20443	1-351 3176-3286 3606-3939 4045-4149 4293-4820 5107-5671 7431-8168 9463-9741 9822-10045 10429-10707 11092-11373 11769-12157 13102-13177 13260-13415 14428-14713 15542-15982 16084-16188 16362-16481 16883-17055 19547-20060 20079-20340 20362-20661 21851-22282 22406-22480 23050-23325 23507-23629 23784-24288 24516-24680 24863-25104 25499-25615 27255-27542 30356-30821 32463-32561 32733-33093

					33356-33852 34051-34325 34342-34422 34466-34606 35548-35818 36758-37074 39091-39182 39476-39898 40159-40748 41081-41159
HCFCB67	367	751764	AC008635	20444	1-239
HCFCC57	368	577375	AC046170	20445	1-548
HCFCC94	370	670538	AC005776	20446	1-417
HCFCC94	370	670538	AC005776	20447	1-105
HCFCC94	370	670538	AC005776	20448	1-262
HCFCD44	371	883973	AC073863	20449	1-480
HCFCD44	371	883973	AC009731	20450	1-480
HCFCD44	371	883973	AC073863	20451	1-221
HCFCD44	371	883973	AC009731	20452	1-267
HCFCD44	371	883973	AC009731	20453	1-221
HCFCF47	372	894415	AC036159	20454	1-545
HCFCH47	373	720400	AC003072	20455	1-395 1224-1311 2736-2904 3775-5829 6051-6406 6418-7537
HCFCH47	373	720400	AC003072	20456	1-314
HCFCH47	373	720400	AC003072	20457	1-384
HCFCJ21	374	671028	AC027389	20458	1-106
HCFCM12	375	970835	AC019182	20459	1-885 914-1499 2735-2756
HCFCM12	375	970835	AC019182	20460	1-106 133-493 1381-1525 2017-2452 3310-4064
HCFCN66	376	850422	AC009554	20461	1-469
HCFCN66	376	850422	AC009554	20462	1-375
HCFCN81	377	576871	AL356780	20463	1-119 788-1621 2685-2774
HCFCN81	377	576871	AL356780	20464	1-132
HCFCN81	377	576871	AL356780	20465	1-646
HCFCP14	378	577277	AL109916	20466	1-374
HCFCP14	378	577277	AL158035	20467	1-374
HCFCP14	378	577277	AL109916	20468	1-367
HCFCP14	378	577277	AL158035	20469	1-367
HCFCP14	378	577277	AL109916	20470	1-386
HCFCP14	378	577277	AL158035	20471	1-386
HCFCR76	380	862682	AL033547	20472	1-567
HCFCR76	380·	862682	AL033547	20473	1-254
HCFCR76	380	862682	AL033547	20474	1-520
HCFCX73	381	575988	AC012609	20475	1-311
HCFCX73	381	575988	AC026406	20476	1-298

HCFDB13	382	576709	AP002449	20477	1-508
HCFDB13	382	576709	AC067860	20478	1-506
HCFDB13	382	576709	AC069433	20479	1-506
HCFDB13	382	576709	AP002449	20480	1-237
HCFDB13	382	576709	AP002449	20481	1-105
HCFDB13	382	576709	AC067860	20482	1-237
HCFDB13	382	576709	AC069433	20483	1-237
HCFDB13	382	576709	AC067860	20484	1-105
HCFDB13	382	576709	AC069433	20485	1-105
HCFDE10	384	961270	AC034222	20486	1-875
HCFDE10	384	961270	AC034222	20487	1-801
HCFDE19	385	671507	AC009015	20488	1-1562
HCFDE19	385	671507	AC003959	20489	1-466 1183-2284 2689-3833 4113-4288 4369-4952 6183-7749
HCFDE19	385	671507	AC009015	20490	1-526
HCFDE19	385	671507	AC003959	20491	1-664
HCFDE79	386	575996	AC013479	20492	1-541
HCFLD78	389	773685	AC026161	20493	1-2605
HCFLD78	389	773685	AC022070	20494	1-2605
HCFLD78	389	773685	AC008151	20495	1-2605
HCFLD78	389	773685	AC026161	20496	1-1513
HCFLD78	389	773685	AC022070	20497	1-1513
HCFLD78	389	773685	AC008151	20498	1-1513
HCFLE44	390	576679	AC023058	20499	1-158 652-938 1101-2698 3877-4323 4510-4935 5945-6302
HCFLE44	390	576679	AC023159	20500	1-974 1300-1533 1969-2092 3094-3380 3543-4233
HCFLE44	390	576679	AC024056	20501	1-1586
HCFLE44	390	576679	AC018506	20502	1-218 712-998 1161-2759 3937-4383 4570-4995 6005-6478 8782-9084 9651-13138
HCFLE44	390	576679	AC023159	20503	1-1120
HCFLE44	390	576679	AC023058	20504	1-124
HCFLE44	390	576679	AC024056	20505	1-3488
HCFLE44	390	576679	AC024056	20506	1-287
HCFLE44	390	576679	AC018506	20507	1-313
HCFLE44	390	576679	AC018506	20508	1-124
HCFLE95	391	945122	AL121949	20509	1-248
HCFLE95	391	945122	AL121949	20510	1-433
HCFLF96	392	579039	AL049780	20511	1-33

					2486-3028
					3593-3681
					3828-3889
					6854-6907
					7350-7545
					9474-9717
					9723-10077
					10527-11087
					11166-11594
					13231-13400
					14027-14327
					15465-15573
					16076-16238
					19959-20368
					21799-21859
					23602-24438
					24694-24797
					25509-25961
					26557-27070
					28587-28750
					28843-29088
					29996-30215
					30398-30446
					32541-35115
HCFLF96	392	579039	AC007055	20512	1-33
					2488-3030
					3594-3682
					3829-3890
					6855-6908
					7351-7546
					9459-9702
					9708-10062
					10512-11071
					11150-11578
					13215-13384
					14006-14311
					15449-15557
					16060-16222
					19946-20355
					21782-21842
					23585-24421
					25493-25945
					26541-27054
					28572-28735
					28828-29073
					29981-30200
					32526-35100
HCFLF96	392	579039	AL049780	20513	1-133
HCFLF96	392	579039	AL049780	20514	1-295
HCFLF96	392	579039	AC007055	20515	1-266
HCFLF96	392	579039	AC007055	20516	1-133
HCFLG84	393	711243	AC016776	20517	1-316
HCFLG84	393	711243	AC016757	20518	1-316
HCFLG84	393	711243	AC016776	20519	1-126
HCFLG84	393	711243	AC016776	20520	1-272
					481-645
					1222-1860

HCFLG84	393	711243	AC016757	20521	1-105
HCFLG84	393	711243	AC016757	20522	1-271 480-644 1217-1853
HCFLI49	394	722269	AC008746	20523	1-525
HCFLI49	394	722269	AC008746	20524	1-514
HCFLI49	394	722269	AC008746	20525	1-326
HCFLJ40	395	576068	AC027296	20526	1-694
HCFLJ40	395	576068	AC012020	20527	1-694
HCFLJ40	395	576068	AC012340	20528	1-694
HCFLJ40	395	576068	AC011318	20529	1-694
HCFLJ40	395	576068	AC027296	20530	1-114
HCFLJ40	395	576068	AC012020	20531	1-114
HCFLJ40	395	576068	AC027296	20532	1-95 1633-2044
HCFLJ40	395	576068	AC012020	20533	1-95 1634-2045
HCFLJ40	395	576068	AC012340	20534	1-95 1633-2044
HCFLJ40	395	576068	AC011318	20535	1-114
HCFLJ40	395	576068	AC012340	20536	1-605
HCFLJ40	395	576068	AC011318	20537	1-95 1634-2045
HCFLR55	397	576043	AC016995	20538	1-54 300-406 746-1337 3607-3655 4275-4329 5694-5787 7962-8300 8491-8630 9433-9527 9990-10554 15587-16122 16603-16970 17481-17934 18056-18492 18632-18668 19513-19746 20110-20847 20907-24290 24318-24993
HCFLR55	397	576043	AC016995	20539	1-579
HCFLU12	400	970849	AC073950	20540	1-502
HCFLU12	400	970849	AL096816	20541	1-505
HCFLU12	400	970849	AL096816	20542	1-493
HCFLW58	401	964870	AC015804	20543	1-561 1099-1510
HCFLW58	401	964870	AC015804	20544	1-268
HCFLW58	401	964870	AC015804	20545	1-806 2314-2866
HCFMC42	402	670519	AC013416	20546	1-599
HCFMC42	402	670519	AC004847	20547	1-592
HCFMC42	402	670519	AC013416	20548	1-133 216-355 360-480

					623-730
					909-1963
HCFMC42	402	670519	AC013416	20549	1-921
HCFMC42	402	670519	AC004847	20550	1-133
					325-423
					909-1963
HCFMD15	403	975075	AL365325	20551	1-649
HCFMD15	403	975075	AL365325	20552	1-236
HCFMD15	403	975075	AL365325	20553	1-108
HCFMD23	404	676003	AC069425	20554	1-429
HCFMD23	404	676003	AC069204	20555	1-429
HCFMD23	404	676003	AC016937	20556	1-429
HCFMD23	404	676003	AC069425	20557	1-469
HCFMD23	404	676003	AC069204	20558	1-539
HCFMD23	404	676003	AC069425	20559	1-539
HCFMD23	404	676003	AC069204	20560	1-469
HCFMD23	404	676003	AC016937	20561	1-539
HCFMD23	404	676003	AC016937	20562	1-469
HCFME27	405	576815	AL031283	20563	1-434
HCFME27	405	576815	AL031283	20564	1-691
HCFME27	405	576815	AL031283	20565	1-665
HCFMF47	406	973243	AL139404	20566	1-623
HCFMF47	406	973243	AL139404	20567	1-101
HCFMF47	406	973243	AL139404	20568	1-127
HCFMG14	408	576063	AC024049	20569	1-352
HCFMG14	408	576063	AF276758	20570	1-352
HCFMH12	409	970843	AC011196	20571	1-259
					4697-4727
HCFMH12	409	970843	AC025937	20572	1-238
HCFMH12	409	970843	AC068034	20573	1-581
HCFMH12	409	970843	AC046131	20574	1-238
HCFMH12	409	970843	AC016630	20575	1-246
HCFMH12	409	970843	AC007459	20576	1-242
HCFMH12	409	970843	AC024702	20577	1-525
					982-1092
					2688-2754
					4137-4761
					4842-5048
					5253-5597
					8429-8955
					9634-10247
					10380-10833
					12609-12781
HCFMH12	409	970843	AC016630	20578	1-131
HCFMH12	409	970843	AC024702	20579	1-139
HCFMH12	409	970843	AC024702	20580	1-612
HCFMJ70	410	576096	AL135744	20581	1-595
HCFMJ70	410	576096	AL135744	20582	1-448
HCFMJ70	410	576096	AL135744	20583	1-411
HCFMK25	411	576081	AC021989	20584	1-259
HCFMK25	411	576081	AC021989	20585	1-493
HCFMK25	411	576081	AC021989	20586	1-209
					784-1247
					2313-2635
HCFMK49	413	576098	AC025605	20587	1-380
HCFMK49	413	576098	AC025605	20588	1-296

HCFMK63	415	506251	AC009827	20589	1-344
HCFMK63	415	506251	AP001010	20590	1-344
HCFMK63	415	506251	AP001010	20591	1-562
HCFML42	416	576667	AL357092	20592	1-457
HCFML42	416	576667	AL357092	20593	1-654
HCFML42	416	576667	AL357092	20594	1-602
HCFMM81	417	506250	AC010364	20595	1-465
HCFMO64	419	805822	AL356478	20596	1-1241
HCFMO64	419	805822	AC023038	20597	1-3330 3654-4538
HCFMO64	419	805822	AL356780	20598	1-3330 3654-4538
HCFMO64	419	805822	AL356392	20599	1-3330 3654-4538
HCFMO64	419	805822	AC023038	20600	1-101
HCFMO64	419	805822	AL356780	20601	1-101
HCFMO64	419	805822	AL356478	20602	1-101
HCFMO64	419	805822	AC023038	20603	1-388
HCFMO64	419	805822	AL356392	20604	1-387
HCFMO64	419	805822	AL356392	20605	1-101
HCFMT62	420	954213	AC069366	20606	1-910
HCFMT62	420	954213	AC015829	20607	1-546
HCFMT62	420	954213	AC015688	20608	1-910
HCFMY85	421	933017	AC006479	20609	1-1081
HCFMY85	421	933017	AC006479	20610	1-1052
HCFMY85	421	933017	AC006479	20611	1-117
HCFMZ17	422	664132	AL353685	20612	1-130 1284-1382 1798-1846 2042-2624 3551-3663
HCFNB62	424	576446	AL355388	20613	1-442 607-803 832-1373 2145-2267
HCFNB62	424	576446	AL355388	20614	1-522
HCFNB62	424	576446	AL355388	20615	1-404
HCFNO55	426	576008	AC009148	20616	1-731
HCFNO55	426	576008	AC021880	20617	1-722
HCFNO55	426	576008	AC021116	20618	1-731
HCFNO55	426	576008	AC009148	20619	1-164
HCFNO55	426	576008	AC021880	20620	1-164
HCFNO55	426	576008	AC021116	20621	1-164
HCFOE38	429	576005	AC015867	20622	1-657
HCFOE38	429	576005	AC015867	20623	1-299
HCFOE38	429	576005	AC015867	20624	1-90
HCFOF90	430	561625	AC027603	20625	1-684
HCFOG82	431	576007	AC018628	20626	1-973
HCFOG82	431	576007	AC060798	20627	1-973
HCFOG82	431	576007	AC018628	20628	1-635
HCFOG82	431	576007	AC060798	20629	1-635
HCFOG82	431	576007	AC018628	20630	1-141
HCFOH56	432	577114	AC073334	20631	1-924
HCFOH56	432	577114	AC073334	20632	1-148 160-220
HCFOH56	432	577114	AC073334	20633	1-192

HCFOI11	433	967195	AP000631	20634	1-436 446-6013 6490-6713
HCFOI11	433	967195	AP001444	20635	1-1625
HCFOI11	433	967195	AP001444	20636	1-174
HCFOL96	434	796104	AC023089	20637	1-747
HCFOL96	434	796104	AC022942	20638	1-747
HCFOL96	434	796104	AL359252	20639	1-747
HCFOL96	434	796104	AC022942	20640	1-251
HCFOL96	434	796104	AL359252	20641	1-251
HCFOO18	435	575965	AP002408	20642	1-383
HCFOO18	435	575965	AP001498	20643	1-383
HCFOO18	435	575965	AC074288	20644	1-383
HCFOO18	435	575965	AC021325	20645	1-383
HCFOO18	435	575965	AC021714	20646	1-383
HCFOO18	435	575965	AC074288	20647	1-101
HCFOO18	435	575965	AC021325	20648	1-101
HCFOO18	435	575965	AC074288	20649	1-476
HCFOO18	435	575965	AC021325	20650	1-476
HCFOO18	435	575965	AC021714	20651	1-101
HCFOO18	435	575965	AC021714	20652	1-476
HCFOP46	437	927654	AC004387	20653	1-424
HCFOP46	437	927654	AC004387	20654	1-143
HCUAE70	440	959686	AC073481	20655	1-210
HCUAG92	442	504395	AC026227	20656	1-336
HCUAG92	442	504395	AC026227	20657	1-543
HCUAH15	443	916651	AC021030	20658	1-357
HCUAH15	443	916651	AC021030	20659	1-251
HCUAH60	444	916621	AC013709	20660	1-1418 1423-1942
HCUAH70	445	574164	AC009053	20661	1-742
HCUAH70	445	574164	AC009053	20662	1-409
HCUAH70	445	574164	AC009053	20663	1-240
HCUAI71	446	959492	AC027253	20664	1-481
HCUAI71	446	959492	AL162791	20665	1-93 1908-2112 2560-2885 3834-4635 7122-7452 7597-7872 8109-8589 8970-9155 9680-9770 10880-11011 11395-11522 11845-11916 12699-12920 13055-13406 14575-14865 16377-16874 17120-21461
HCUAI71	446	959492	AC018644	20666	1-93 1908-2112 2560-2885 3834-4635 7119-7455

					7597-7872
					8109-8589
					8970-9155
					9680-9770
					10880-11011
					11395-11475
HCUAI71	446	959492	AC027253	20667	1-186
HCUAI71	446	959492	AL162791	20668	1-137
HCUAI71	446	959492	AL162791	20669	1-262
HCUAI71	446	959492	AC018644	20670	1-262
HCUAI71	446	959492	AC018644	20671	1-72
					855-1076
HCUAK23	447	676289	AL133485	20672	1-558
HCUAK23	447	676289	AL133485	20673	1-430
HCUAK49	448	574256	AC027207	20674	1-510
HCUAK49	448	574256	AC022862	20675	1-510
HCUAK49	448	574256	AC023006	20676	1-58
					1060-1157
					1719-1838
					3822-4331
HCUAK49	448	574256	AC027207	20677	1-325
HCUAK49	448	574256	AC022862	20678	1-338
HCUAK49	448	574256	AC023006	20679	1-338
HCUAL07	449	953876	AC069024	20680	1-661
HCUAL07	449	953876	AC069024	20681	1-105
HCUAM57	450	574375	AC011939	20682	1-335
HCUAM57	450	574375	AC011939	20683	1-603
HCUAM57	450	574375	AC011939	20684	1-433
HCUAN44	452	574154	AC010968	20685	1-495
HCUAN44	452	574154	AL133245	20686	1-495
HCUAN44	452	574154	AC010968	20687	1-639
					646-786
HCUAN44	452	574154	AC010968	20688	1-87
HCUAN44	452	574154	AL133245	20689	1-461
					468-608
HCUAN44	452	574154	AL133245	20690	1-87
HCUAN72	454	850140	AL049709	20691	1-468
HCUAN72	454	850140	AL049709	20692	1-194
HCUAN72	454	850140	AL049709	20693	1-706
HCUAO03	455	924902	AC016725	20694	1-463
HCUAO03	455	924902	AC016725	20695	1-495
HCUAO03	455	924902	AC016725	20696	1-86
HCUAQ92	457	506688	AC011247	20697	1-372
HCUAQ92	457	506688	AC011247	20698	1-264
HCUAQ92	457	506688	AC011247	20699	1-480
HCUAR07	458	953872	AC008541	20700	1-650
HCUAR07	458	953872	AC008541	20701	1-462
					1629-2390
HCUAT07	459	953869	AL021396	20702	1-311
					710-905
					2481-3131
					4113-4756
					20716-21291
					21336-22335
					29441-29526
					31157-31465

					32435-32460 34207-34543 35891-35954 37127-38771
HCUAT07	459	953869	AL021396	20703	1-3577
HCUAT07	459	953869	AL021396	20704	1-84 371-556
HCUAU16	461	574193	AL139106	20705	1-300
HCUAU16	461	574193	AL139106	20706	1-197
HCUAU16	461	574193	AL139106	20707	1-595
HCUAX57	462	934633	AC068345	20708	1-542 923-1396
HCUAX57	462	934633	AC051654	20709	1-541 922-1396
HCUAX57	462	934633	AC025936	20710	1-542 923-1397
HCUAX57	462	934633	AC068345	20711	1-425
HCUAX57	462	934633	AC068345	20712	1-563
HCUAX57	462	934633	AC051654	20713	1-425
HCUAX57	462	934633	AC025936	20714	1-563
HCUAX57	462	934633	AC051654	20715	1-563
HCUAX57	462	934633	AC025936	20716	1-425
HCUBB28	463	685493	AC006358	20717	1-330
HCUBB28	463	685493	AC006358	20718	1-270
HCUBB46	464	577238	AC012487	20719	1-374
HCUBB46	464	577238	AC012487	20720	1-228
HCUBB46	464	577238	AC012487	20721	1-642 839-1028
HCUBE26	465	810522	AL159992	20722	1-114
HCUBE27	466	574097	AL162590	20723	1-412
HCUBE27	466	574097	AL161445	20724	1-412
HCUBE27	466	574097	AL162590	20725	1-405 1672-1859 2277-2588
HCUBE27	466	574097	AL162590	20726	1-697
HCUBE27	466	574097	AL161445	20727	1-697
HCUBE27	466	574097	AL161445	20728	1-405 1672-1859 2277-2588
HCUBE55	467	574203	AC009996	20729	1-436 1590-1977 2511-3248 3257-4230 4664-5618 5831-5938 7048-8230 9031-9121 9145-9931 10637-11800 11867-12970
HCUBG83	469	537501	AC012676	20730	1-237 1235-1650 3290-3390 3518-3873 4268-4340 5781-6043

					7436-7755 8442-8519 9011-9195
HCUBI13	471	862161	AC020920	20731	1-183
HCUBI13	471	862161	AC025184	20732	1-186
HCUBI13	471	862161	AC073474	20733	1-460 961-1715
HCUBI13	471	862161	AC073320	20734	1-459 960-1714
HCUBI13	471	862161	AC073474	20735	1-593
HCUBI13	471	862161	AC073474	20736	1-627
HCUBI13	471	862161	AC073320	20737	1-593
HCUBI13	471	862161	AC073320	20738	1-627
HCUBI14	472	574199	AL121913	20739	1-293
HCUBI14	472	574199	AL121913	20740	1-688
HCUBI14	472	574199	AL121913	20741	1-1443
HCUBI15	473	881192	AC012659	20742	1-352
HCUBI15	473	881192	AJ132410	20743	1-352
HCUBI15	473	881192	AC012659	20744	1-186
HCUBI15	473	881192	AJ132410	20745	1-490
HCUBI15	473	881192	AJ132410	20746	1-115 134-313
HCUBI38	474	792415	AL161781	20747	1-543
HCUBI49	476	961748	AL357633	20748	1-149
HCUBI49	476	961748	AL357633	20749	1-238
HCUBI74	477	574235	AC013451	20750	1-427
HCUBI74	477	574235	AC013451	20751	1-254
HCUBJ11	478	967484	AC023295	20752	1-369
HCUBK01	480	917257	AC009452	20753	1-413
HCUBK36	481	850132	AC009759	20754	1-507
HCUBK36	481	850132	AC012018	20755	1-507
HCUBK36	481	850132	AC009759	20756	1-416
HCUBK36	481	850132	AC009759	20757	1-316
HCUBK36	481	850132	AC012018	20758	1-316
HCUBK36	481	850132	AC012018	20759	1-416
HCUBK46	483	574120	AC027446	20760	1-360
HCUBK46	483	574120	AC037438	20761	1-360
HCUBK46	483	574120	AC027446	20762	1-158
HCUBK46	483	574120	AC027446	20763	1-302 427-828
HCUBK46	483	574120	AC037438	20764	1-302 427-828
HCUBK46	483	574120	AC037438	20765	1-158
HCUBL12	485	739021	AL358790	20766	1-204
HCUBL12	485	739021	AL353727	20767	1-204
HCUBL12	485	739021	AC009144	20768	1-204
HCUBL12	485	739021	AL358790	20769	1-254
HCUBL12	485	739021	AL358790	20770	1-750 1266-4745
HCUBL12	485	739021	AL353727	20771	1-750 1266-4744
HCUBL12	485	739021	AC009144	20772	1-947
HCUBL65	486	574201	AC026664	20773	1-308
HCUBL65	486	574201	AC026339	20774	1-307
HCUBL65	486	574201	AC055717	20775	1-309
HCUBL65	486	574201	AC021743	20776	1-307

HCUBN07	488	953879	AC027603	20777	1-190
HCUBN07	488	953879	AC027603	20778	1-442
HCUBN07	488	953879	AC027603	20779	1-177
HCUBN38	490	971421	AC004227	20780	1-392 531-752 819-1798 2275-2678
HCUBN38	490	971421	AC004227	20781	1-309
HCUBN38	490	971421	AC004227	20782	1-1186
HCUBN66	491	664536	AC008569	20783	1-660 998-1319 1504-1784 2326-2727 2831-2999 3074-3235 3251-3339 3846-4002 4041-4483 4980-5025 5848-5973 5998-6122 6626-7510 7513-8231 9265-9396 9997-10146 10578-10734 10810-11205 12204-12521 12927-13242 13794-14486 14573-14684 15516-15786 16358-16733 16787-17242 17307-17486 18669-18874 19251-19480 19623-19965 19982-20150 20327-20598 20819-21648 21742-21952 21960-22131 22220-23824 23906-24530 25471-25737 25904-26390
HCUBN66	491	664536	AC008569	20784	1-461 1463-1563 2194-2363
HCUBO08	492	959928	AC006388	20785	1-443
HCUBO08	492	959928	AC006388	20786	1-149
HCUBO08	492	959928	AC006388	20787	1-409
HCUBP69	493	526757	AL031683	20788	1-135
HCUBP69	493	526757	AL031683	20789	1-122
HCUBP89	494	850016	AC046176	20790	1-359
HCUBP89	494	850016	AC046176	20791	1-142

HCUBQ76	495	575352	AC016114	20792	1-243
HCUBQ76	495	575352	AL356021	20793	1-243
HCUBQ85	496	967074	AL356457	20794	1-329
HCUBQ85	496	967074	AL356457	20795	1-689
HCUBS58	497	522378	AP001963	20796	1-63 228-870 1835-2235 2276-3113
HCUBS58	497	522378	AP001816	20797	1-63 228-870 1835-2235 2276-3113
HCUBS58	497	522378	AC013785	20798	1-63 228-870 1835-2235 2276-3113
HCUBS58	497	522378	AP001963	20799	1-409
HCUBS58	497	522378	AP001816	20800	1-409
HCUBS58	497	522378	AC013785	20801	1-409
HCUBT02	499	920682	AC078843	20802	1-318
HCUBT02	499	920682	AC009530	20803	1-318
HCUBT02	499	920682	AC078843	20804	1-325
HCUBT02	499	920682	AC009530	20805	1-325
HCUBT94	500	574239	AC012630	20806	1-556
HCUBT94	500	574239	AC008533	20807	1-556
HCUBT94	500	574239	AC011371	20808	1-561
HCUBT94	500	574239	AC012630	20809	1-318
HCUBT94	500	574239	AC008533	20810	1-318
HCUBT94	500	574239	AC011371	20811	1-318
HCUBV04	501	615547	AL035090	20812	1-416
HCUBX57	502	506518	AC020600	20813	1-606
HCUBX57	502	506518	AP001630	20814	1-605
HCUBX57	502	506518	AC020600	20815	1-302
HCUBX57	502	506518	AC020600	20816	1-460
HCUBX57	502	506518	AP001630	20817	1-245
HCUBX57	502	506518	AP001630	20818	1-460
HCUBZ57	503	529702	AC068084	20819	1-341
HCUBZ57	503	529702	AC068084	20820	1-134
HCUBZ86	504	694720	AC006451	20821	1-292
HCUBZ88	505	574096	AL136525	20822	1-586
HCUBZ96	506	506585	AC010160	20823	1-307
HCUBZ96	506	506585	AC010160	20824	1-462
HCUCC20	508	573901	AL355132	20825	1-382
HCUCC20	508	573901	AL355132	20826	1-238
HCUCC20	508	573901	AL355132	20827	1-151
HCUCC78	509	577129	AL022318	20828	1-92 279-578 642-939
HCUCC96	510	796530	AC060796	20829	1-490
HCUCD82	512	780047	AC026068	20830	1-657
HCUCD82	512	780047	AC026068	20831	1-507 1224-1359
HCUCG21	513	671210	AC009720	20832	1-532
HCUCI43	514	715488	AL136380	20833	1-210
HCUCI43	514	715488	AL136380	20834	1-160
HCUCJ90	515	967501	AC007032	20835	1-163

					511-831
					1581-1856
					1918-2584
					2587-2776
					3944-4761
					4855-7799
					7849-8034
					8580-8847
					9303-10448
					11604-12183
					12772-13476
					13563-13793
					14201-14557
					14872-17303
					17312-17604
					17739-18258
					18373-19256
					20321-20694
					20846-22055
					22122-22853
					22866-23293
					23557-24012
					24021-24459
					25225-28897
HCUCJ90	515	967501	AC007032	20836	1-445
HCUCJ90	515	967501	AC007032	20837	1-449
HCUCT08	516	959910	AC012479	20838	1-498
HCUCT48	517	720905	AP002520	20839	1-618
HCUCT48	517	720905	AP001447	20840	1-605
HCUCT48	517	720905	AC023532	20841	1-606
HCUCT48	517	720905	AC023532	20842	1-153
HCUCV13	518	574121	AC012515	20843	1-196 210-317
HCUCV13	518	574121	AC012264	20844	1-195 209-316
HCUCV13	518	574121	AC012264	20845	1-586
HCUCV20	519	694398	AC015935	20846	1-257
HCUCV20	519	694398	AC015935	20847	1-435
HCUCV20	519	694398	AC015935	20848	1-435
HCUDA38	520	862089	AC009632	20849	1-347
HCUDA38	520	862089	AC009631	20850	1-347
HCUDA38	520	862089	AC026216	20851	1-347
HCUDA38	520	862089	AC009632	20852	1-615
HCUDA38	520	862089	AC009631	20853	1-615
HCUDA38	520	862089	AC026216	20854	1-277 410-769
HCUDA38	520	862089	AC009632	20855	1-277 410-769
HCUDA38	520	862089	AC009631	20856	1-277 410-769
HCUDB13	521	578712	AL162740	20857	1-676
HCUDB13	521	578712	AL162740	20858	1-127
HCUDC45	522	576566	AC007324	20859	1-446
HCUDC45	522	576566	AC008079	20860	1-446
HCUDC45	522	576566	AC016830	20861	1-388
HCUDC45	522	576566	AC008101	20862	1-446

HCUDC45	522	576566	AC007324	20863	1-153
HCUDC45	522	576566	AC008079	20864	1-153
HCUDC45	522	576566	AC016830	20865	1-267
HCUDC45	522	576566	AC008101	20866	1-153
HCUDC79	523	576577	AL158832	20867	1-159
HCUDC79	523	576577	AL158832	20868	1-207 1185-2021 2333-2509
HCUDD19	524	959706	AC055737	20869	1-114 191-669 2037-2419 2589-2859 4005-4183 5303-6715
HCUDD19	524	959706	AC018450	20870	1-114 191-669 2037-2419 2589-2859 4005-4183 5303-6718
HCUDD19	524	959706	AC020648	20871	1-114 191-669 2037-2419 2589-2859 4005-4183 5303-6717
HCUDD19	524	959706	AC055737	20872	1-2548
HCUDD19	524	959706	AC055737	20873	1-179
HCUDD19	524	959706	AC018450	20874	1-179
HCUDD19	524	959706	AC020648	20875	1-2665
HCUDD19	524	959706	AC018450	20876	1-2663
HCUDD19	524	959706	AC020648	20877	1-179
HCUDD43	525	850103	AC015995	20878	1-275
HCUDD43	525	850103	AC073487	20879	1-447
HCUDD43	525	850103	AC023055	20880	1-447
HCUDD43	525	850103	AC023055	20881	1-327
HCUDD43	525	850103	AC073487	20882	1-1016
HCUDD43	525	850103	AC023055	20883	1-1016
HCUDD57	526	734883	AC025414	20884	1-697 722-3480
HCUDD57	526	734883	AC011802	20885	1-697 722-3480
HCUDD57	526	734883	AC025414	20886	1-898
HCUDD57	526	734883	AC011802	20887	1-898
HCUDF26	530	676949	AC069425	20888	1-803
HCUDF26	530	676949	AC069298	20889	1-803
HCUDF26	530	676949	AC022074	20890	1-803
HCUDF26	530	676949	AC069425	20891	1-1283
HCUDF26	530	676949	AC069298	20892	1-471
HCUDF26	530	676949	AC022074	20893	1-471
HCUDF26	530	676949	AC069425	20894	1-471
HCUDF26	530	676949	AC069298	20895	1-1283
HCUDF26	530	676949	AC022074	20896	1-1283
HCUDF33	531	577224	AC026706	20897	1-641
HCUDF33	531	577224	AC026725	20898	1-641
HCUDF90	532	958449	AC021353	20899	1-495

HCUDF90	532	958449	AC021353	20900	1-458
HCUDL94	536	915821	AC009488	20901	1-156 1908-2555 2666-3894 3983-4051 4310-4534 4624-4863 4922-5519
HCUDL94	536	915821	AF053356	20902	1-153 1905-2552 2663-3891 3980-4048 4307-4531 4621-4860 4919-5516
HCUDL94	536	915821	AC009488	20903	1-150
HCUDL94	536	915821	AC009488	20904	1-2490 2558-2731 2817-2982 3085-3256
HCUDL94	536	915821	AF053356	20905	1-2489 2557-2730 2816-2981 3084-3255
HCUDL94	536	915821	AF053356	20906	1-618
HCUDM23	537	462283	AC025866	20907	1-391
HCUDM23	537	462283	AC025866	20908	1-190
HCUDM23	537	462283	AC025866	20909	1-403
HCUDM66	538	506522	AC069339	20910	1-391
HCUDM66	538	506522	AC069339	20911	1-279
HCUDN09	539	850101	AC037198	20912	1-345 1263-5069
HCUDN14	540	862119	AL135916	20913	1-410
HCUDN14	540	862119	AL161433	20914	1-410
HCUDN14	540	862119	AL009030	20915	1-198 922-1331 1463-1780 2140-2321 2947-3294 3781-3863 4777-4898 5702-5878
HCUDN14	540	862119	AC011244	20916	1-299 1027-1436 1568-2015 2133-2823 2887-3398 3894-3979 4893-5014 5145-5614 5696-7528 7544-7570 7688-15819
HCUDN14	540	862119	AC023817	20917	1-329 1019-1428 1560-2007 2125-2816

					2880-3391
					3878-3960
					4195-4513
					4874-4995
					5126-5595
					5677-6734
HCUDN14	540	862119	AL161433	20918	1-410
HCUDN14	540	862119	AL133255	20919	1-329
					1018-1427
					1559-2005
					2123-2807
					2871-3397
					3861-3943
					4178-4493
					4495-4540
					4860-4981
					5112-5581
					5785-5961
					5964-6255
					6275-6918
					7924-8195
					8309-8322
					8570-8941
					9606-9953
					9995-10303
					10360-11143
					11160-11794
					11862-12458
HCUDN14	540	862119	AL157879	20920	1-294
					1031-1440
					1572-2019
					2137-2827
					2891-3402
					3877-3955
HCUDN14	540	862119	AL021368	20921	1-329
					1031-1440
					1572-2019
					2137-2830
					2894-3405
					3888-3970
					4881-5002
					5805-5981
					5984-6275
					6295-6935
					7936-8204
					8580-8952
					9218-9962
					10004-10324
					10370-11684
HCUDN14	540	862119	AL009030	20922	1-641
HCUDN14	540	862119	AC011244	20923	1-1398
HCUDN14	540	862119	AC023817	20924	1-216
HCUDN14	540	862119	AL009030	20925	1-2410
					2441-3279
					3428-8543
					8996-9446
					9718-10251

547

					10576-11693
					11746-11961
					12044-12372
					13677-14050
					14168-14347
					14349-14859
					14923-15285
					15317-15425
					15921-16003
					16238-16556
					17169-17638
					17720-18762
					18830-19550
					19703-22302
					22486-23468
					23899-24025
					24051-24585
					24653-26442
					26581-30248
					31224-32376
HCUDN14	540	862119	AC023817	20926	1-459
HCUDN14	540	862119	AL133255	20927	1-90
					115-171
HCUDN14	540	862119	AL133255	20928	1-217
HCUDN14	540	862119	AL157879	20929	1-319
HCUDN14	540	862119	AL021368	20930	1-318
					386-985
HCUDN14	540	862119	AL157879	20931	1-216
HCUDN14	540	862119	AL021368	20932	1-301
HCUDP19	541	578721	AC048366	20933	1-151
					1187-1781
					4111-4153
HCUDP19	541	578721	AL359632	20934	1-595
HCUDP19	541	578721	AC048366	20935	1-308
HCUDP19	541	578721	AL359632	20936	1-141
HCUDP23	542	783051	AP000936	20937	1-556
HCUDP23	542	783051	AC022760	20938	1-556
HCUDP23	542	783051	AC022760	20939	1-108
HCUDP23	542	783051	AP000936	20940	1-212
HCUDP23	542	783051	AC022760	20941	1-212
HCUDP82	544	578720	AC009475	20942	1-594
HCUDP82	544	578720	AC009475	20943	1-119
HCUDP82	544	578720	AC009475	20944	1-164
HCUDQ61	545	839959	AC007823	20945	1-2212
					2990-3304
					3317-3576
					3785-4192
					4256-4364
					4581-4696
					6082-6303
HCUDQ61	545	839959	AC007620	20946	1-2212
					2990-3304
					3317-3576
					3785-4192
					4256-4364
					4581-4696
					6082-6295

HCUDQ61	545	839959	AC007823	20947	1-497
HCUDQ61	545	839959	AC007823	20948	1-468
HCUDQ61	545	839959	AC007620	20949	1-468
HCUDQ61	545	839959	AC007620	20950	1-497
HCUDS61	546	578705	AC002403	20951	1-493
HCUDS61	546	578705	AC021424	20952	1-495
HCUDS61	546	578705	U90095	20953	1-493
HCUDS61	546	578705	AC021424	20954	1-259
HCUDS61	546	578705	AC002403	20955	1-863
HCUDS61	546	578705	U90095	20956	1-259
HCUDS61	546	578705	U90095	20957	1-863
HCUDT62	547	747131	AC021163	20958	1-478 1530-2009 2259-3057 3589-3977 5001-5083 5175-5619 5665-6733 6832-7858
HCUDT62	547	747131	AC021163	20959	1-281
HCUDT65	548	915742	AC055866	20960	1-67 218-557 645-1103 1232-1367 1623-1769 1839-2048 2237-2331
HCUDW37	549	859268	AP000933	20961	1-1310
HCUDW37	549	859268	AP000933	20962	1-148 1695-1814 1832-2248 2339-3022
HCUDW37	549	859268	AP000933	20963	1-129
HCUDW74	550	576240	AL365206	20964	1-272
HCUDW74	550	576240	AC040894	20965	1-272
HCUDW74	550	576240	Z84480	20966	1-272
HCUDW74	550	576240	AL365206	20967	1-570 733-1174
HCUDW74	550	576240	AC040894	20968	1-570 733-1174
HCUDW74	550	576240	AL365206	20969	1-106
HCUDW74	550	576240	Z84480	20970	1-106
HCUDW74	550	576240	Z84480	20971	1-570 733-1174
HCUDX14	552	571370	AC002477	20972	1-1745 1841-2109 2173-2561 2773-2867 2912-3033 3055-3445 5956-6153
HCUDZ25	553	678365	AC010319	20973	1-386
HCUDZ25	553	678365	AC010319	20974	1-378
HCUDZ25	553	678365	AC010319	20975	1-862
HCUEA58	554	579029	AL031729	20976	1-309
HCUEA58	554	579029	AL031729	20977	1-194

HCUEA58	554	579029	AL031729	20978	1-355
HCUEA63	555	745183	AC003037	20979	1-628
					1336-1527
					1704-1909
					3178-3712
					3809-4542
					4968-5388
					5673-6032
					6648-7379
					9282-9530
					9641-9746
					10089-10534
					11546-11681
					12006-12179
					13878-14363
					14653-14761
					16477-16599
					18599-18667
					19215-19318
					19339-19491
					19580-20050
					20377-20470
					21532-21996
					22888-23018
					23565-23673
					24818-25950
					26311-26439
					27571-27690
					28287-28905
					28973-29085
					30175-30660
					31431-31759
					31867-33452
					33941-34878
HCUEA63	555	745183	AC003037	20980	1-331
HCUEA63	555	745183	AC003037	20981	1-4104
					4567-4928
					5025-5498
					5710-5781
					6049-6702
					6828-6898
					6921-7445
					7907-8116
					8410-8993
					9291-9466
					12841-12997
					15098-15177
HCUEA72	556	713040	AC023891	20982	1-1560
HCUEA72	556	713040	AC023891	20983	1-855
HCUEC06	558	935769	AC010614	20984	1-128
HCUEC06	558	935769	AL354656	20985	1-118
					343-735
					1114-1305
					1531-1639
					2108-2171
HCUEC06	558	935769	AL354656	20986	1-258
HCUEC06	558	935769	AC010614	20987	1-192

HCUEC06	558	935769	AL354656	20988	1-208
HCUED04	560	615410	AL109851	20989	1-329
HCUED04	560	615410	AL109851	20990	1-368
HCUED66	561	576573	AL158801	20991	1-1019
HCUED66	561	576573	AL158801	20992	1-484
HCUED66	561	576573	AL158801	20993	1-117
HCUEE04	562	653118	AL121572	20994	1-509
HCUEE29	563	578709	AC010865	20995	1-1431
HCUEE29	563	578709	AC024014	20996	1-1432
HCUEE29	563	578709	AC010865	20997	1-1165
HCUEE29	563	578709	AC024014	20998	1-254
HCUEE29	563	578709	AC010865	20999	1-254
HCUEE29	563	578709	AC024014	21000	1-1165
HCUEE66	566	578702	AC073501	21001	1-423
HCUEE66	566	578702	AC016582	21002	1-423
HCUEE83	567	578703	AC023365	21003	1-492
HCUEE83	567	578703	AC021775	21004	1-492
HCUEE83	567	578703	AC027456	21005	1-98
HCUEG58	569	784414	AF024533	21006	1-127
HCUEG58	569	784414	AF030453	21007	1-127
HCUEG58	569	784414	AC005088	21008	1-126
HCUEG58	569	784414	AF024533	21009	1-101
HCUEG90	570	578745	AL356796	21010	1-211
HCUEG90	570	578745	AL356796	21011	1-301
HCUEJ55	571	959552	AC068085	21012	1-311
HCUEK37	573	964869	AC022966	21013	1-457
HCUEK37	573	964869	AC022966	21014	1-188
HCUEL28	574	706456	AC007021	21015	1-170
HCUEL91	575	576568	AC019048	21016	1-545
HCUEL91	575	576568	AC068481	21017	1-545
HCUEL91	575	576568	AC019048	21018	1-106
HCUEL91	575	576568	AC068481	21019	1-106
HCUEL91	575	576568	AC068481	21020	1-524
HCUEM23	576	576379	AC009935	21021	1-238
HCUEM23	576	576379	AC006531	21022	1-379
HCUEM23	576	576379	AC006531	21023	1-103
HCUEM35	577	861545	AC021923	21024	1-319
HCUEM62	578	576575	AC078846	21025	1-1169
HCUEM62	578	576575	AC078846	21026	1-438
HCUEM62	578	576575	AC078846	21027	1-594
HCUEN58	580	738225	AC069366	21028	1-677
HCUEN58	580	738225	AC069366	21029	1-470
HCUEN58	580	738225	AC069366	21030	1-300
HCUEO30	582	769203	AC068307	21031	1-107 694-750 3490-3810 4975-5447 6788-6906
HCUEO30	582	769203	AC024441	21032	1-435
HCUEO30	582	769203	AC024441	21033	1-321
HCUEO31	583	576551	AC016699	21034	1-218
HCUEO31	583	576551	AC016699	21035	1-251
HCUEO62	585	578713	AC017092	21036	1-388
HCUEO62	585	578713	AC011794	21037	1-388
HCUEO62	585	578713	AC008513	21038	1-388

HCUEO62	585	578713	AC017092	21039	1-489
HCUEO62	585	578713	AC011794	21040	1-476
HCUEO62	585	578713	AC008513	21041	1-486
HCUEQ37	588	881486	AL008718	21042	1-154
					523-869
					3563-3618
					4367-4621
					4829-5093
					7139-7883
					9036-9995
					10015-10574
					10829-11418
					11631-11926
					12043-12415
					12713-13082
					13618-13994
					14263-14886
					15647-15936
					16231-16380
					16542-16584
					17518-18126
					19027-19160
					20468-20590
					20968-23580
HCUEQ56	589	751410	AC008754	21043	1-823
HCUEQ56	589	751410	AC008754	21044	1-129
HCUEQ56	589	751410	AC008754	21045	1-862
HCUES29	590	579033	AC068012	21046	1-469
HCUES29	590	579033	AC006407	21047	1-471
HCUES29	590	579033	AC006407	21048	1-239
HCUES34	591	850096	AC025339	21049	1-393
HCUES34	591	850096	AC073052	21050	1-393
HCUES34	591	850096	AC025339	21051	1-155
					1124-1243
					1310-2120
					2400-2684
					3179-3414
					3741-4547
					4830-5354
					5793-6195
					7033-7586
					7766-7908
HCUES34	591	850096	AC073052	21052	1-155
					1126-1243
					1310-2120
					2484-2677
					3181-3413
HCUES34	591	850096	AC073052	21053	1-112
HCUES93	592	576498	AC004821	21054	1-412
HCUES93	592	576498	AC004821	21055	1-36
					374-511
					1024-1137
					2474-2952
					2990-3112
					3331-3444
					3641-3738
					3779-3952

					4042-4174 4257-5541
HCUEU10	595	964857	AC007281	21056	1-267
HCUEU20	596	970780	AC069271	21057	1-281
HCUEU20	596	970780	AC018843	21058	1-803
HCUEU20	596	970780	AC011599	21059	1-803
HCUEU20	596	970780	AC018505	21060	1-803
HCUEU20	596	970780	AC022377	21061	1-803
HCUEU20	596	970780	AC018831	21062	1-803
HCUEU20	596	970780	AC069271	21063	1-320
HCUEU20	596	970780	AC018843	21064	1-470
HCUEU20	596	970780	AC011599	21065	1-470
HCUEU20	596	970780	AC018505	21066	1-470
HCUEU20	596	970780	AC022377	21067	1-470
HCUEU20	596	970780	AC018831	21068	1-470
HCUEV65	599	750364	AC027373	21069	1-408
HCUEV65	599	750364	AC018781	21070	1-1168
HCUEV65	599	750364	AC027373	21071	1-782
HCUEV65	599	750364	AC018781	21072	1-155
HCUEV65	599	750364	AC018781	21073	1-782
HCUEV82	600	881370	AP002360	21074	1-131
HCUEV82	600	881370	AP002000	21075	1-131
HCUEV82	600	881370	AP002360	21076	1-89
HCUEV82	600	881370	AP002000	21077	1-89
HCUEW19	601	576513	AC010984	21078	1-310 1364-1403 1418-1655
HCUEW19	601	576513	AC010984	21079	1-109
HCUEW19	601	576513	AC010984	21080	1-516
HCUEW58	602	850061	AC022951	21081	1-383
HCUEW58	602	850061	AC012659	21082	1-381
HCUEW58	602	850061	AC022951	21083	1-318
HCUEW58	602	850061	AC012659	21084	1-318
HCUEX58	604	462365	AL136082	21085	1-354
HCUEX74	605	953897	AC021455	21086	1-729
HCUEX74	605	953897	AC021455	21087	1-290
HCUFB15	611	660460	AP000936	21088	1-260
HCUFB15	611	660460	AC016669	21089	1-260
HCUFB15	611	660460	AP000936	21090	1-300
HCUFB15	611	660460	AC016669	21091	1-300
HCUFB15	611	660460	AC016669	21092	1-358
HCUFB89	612	746601	AL138724	21093	1-170 753-1081 2977-3083 3291-3377 4018-4118 5806-5947 8678-8809 10925-11006
HCUFB89	612	746601	AL138724	21094	1-376
HCUFB89	612	746601	AL138724	21095	1-65 73-111
HCUFC22	613	951134	AC008389	21096	1-267
HCUFC22	613	951134	AC008388	21097	1-267
HCUFC22	613	951134	AC010609	21098	1-268
HCUFC22	613	951134	AC008389	21099	1-139

HCUFC22	613	951134	AC008389	21100	1-1382
HCUFC22	613	951134	AC008388	21101	1-1382
HCUFC22	613	951134	AC008388	21102	1-136
HCUFC22	613	951134	AC010609	21103	1-139
HCUFC22	613	951134	AC010609	21104	1-1382
HCUFD09	614	625728	AC015708	21105	1-749 852-1388
HCUFD09	614	625728	AL158813	21106	1-737 852-1388
HCUFD09	614	625728	AL158813	21107	1-295
HCUFD09	614	625728	AC015708	21108	1-295
HCUFH32	616	920281	AC016452	21109	1-440
HCUFH32	616	920281	AC011133	21110	1-429
HCUFH32	616	920281	AC004085	21111	1-440
HCUFH32	616	920281	AC004085	21112	1-242 362-569
HCUFH32	616	920281	AC004085	21113	1-399
HCUFK94	617	722999	AC026141	21114	1-502
HCUFK94	617	722999	AC011299	21115	1-502
HCUFK94	617	722999	AC026141	21116	1-591
HCUFK94	617	722999	AC011299	21117	1-591
HCUFL02	618	932429	AP000814	21118	1-133 204-2205
HCUFL02	618	932429	AP001187	21119	1-2002
HCUFL02	618	932429	AC000159	21120	1-245 2708-2870 2975-3088 4069-4173 4334-4434 4455-4580 4783-4881 4959-5123 5226-5273 7863-7937 8078-8215 9315-9461 9545-9683 9793-9869 11573-11645 13537-13623 13846-13924 14046-17031 17795-18179 18311-19373 19466-19578 19698-20172 20342-21923 22001-22680
HCUFL02	618	932429	AC000159	21121	1-373
HCUFL35	620	677853	AC073052	21122	1-470
HCUFL35	620	677853	AC025339	21123	1-470
HCUFL35	620	677853	AC073052	21124	1-282
HCUFL35	620	677853	AC025339	21125	1-282
HCUFL35	620	677853	AC073052	21126	1-760
HCUFL77	621	575843	AC026185	21127	1-860
HCUFL77	621	575843	AC018494	21128	1-898

HCUFL77	621	575843	AC018494	21129	1-425
HCUFM65	623	576809	AC069068	21130	1-1423
HCUFN65	624	741927	AL161430	21131	1-495
HCUFN65	624	741927	AC025797	21132	1-495
HCUFN65	624	741927	AL161430	21133	1-1455
HCUFN65	624	741927	AL161430	21134	1-1954
HCUFN65	624	741927	AC025797	21135	1-1954
HCUFP76	626	861703	AL133455	21136	1-491
HCUFP76	626	861703	AL133455	21137	1-303 607-748 2960-3223
HCUFQ80	628	709357	AL359254	21138	1-481
HCUFQ80	628	709357	AL137020	21139	1-481
HCUFU36	630	575831	AL356378	21140	1-538 612-862 1175-1319
HCUFU36	630	575831	AL356378	21141	1-660
HCUFU49	631	953896	AC027075	21142	1-258
HCUFU58	632	725891	AC007249	21143	1-519 675-1381
HCUFU58	632	725891	AC007249	21144	1-302
HCUFU58	632	725891	AC007249	21145	1-261
HCUFU68	633	694410	AC007747	21146	1-482
HCUFU68	633	694410	AL121787	21147	1-477
HCUFU68	633	694410	AL121787	21148	1-88
HCUFU91	634	828083	AC073501	21149	1-278
HCUFU91	634	828083	AC073501	21150	1-282
HCUFV13	635	578459	AC016197	21151	1-484
HCUFV13	635	578459	AC022022	21152	1-484
HCUFV13	635	578459	AC016197	21153	1-564
HCUFV13	635	578459	AC022022	21154	1-1418
HCUFV44	636	576650	AC006995	21155	1-2121 2527-2664 2854-3783 4555-4642 4937-5038 5813-5855 6054-6154 6293-6725 7140-7324 8426-8708 8978-9291 9643-10436 10781-10894
HCUFV44	636	576650	AC005098	21156	1-2122 2850-3780 4550-4637 4932-5027 5828-5870 6308-6740 7155-7340 8438-8720 8982-9307 9920-10355 10794-10907
HCUFV44	636	576650	AC004166	21157	1-2123

555

					2848-3320 3392-3753 4547-4634 4929-5024 5825-5867 6066-6166 6305-6737 7152-7337 8633-8717 8979-9304 9917-10327 10791-10867
HCUFV44	636	576650	AC004883	21158	1-2122 2847-4900 4923-5134 6361-6448 6743-6838 7639-7681 8119-8551 8966-9151 10249-10531 10793-11118 11468-11568 11731-12260 12605-12718
HCUFV44	636	576650	AC006995	21159	1-89
HCUFV44	636	576650	AC005098	21160	1-509
HCUFV44	636	576650	AC004166	21161	1-509
HCUFV44	636	576650	AC004883	21162	1-509
HCUFW41	637	850007	AC068641	21163	1-591
HCUFW41	637	850007	AC009522	21164	1-491 501-1445
HCUFW41	637	850007	AC073860	21165	1-494 504-1448
HCUFW41	637	850007	AC009522	21166	1-445
HCUFW41	637	850007	AC068641	21167	1-313
HCUFW41	637	850007	AC073860	21168	1-313
HCUFW41	637	850007	AC009522	21169	1-314
HCUFW41	637	850007	AC073860	21170	1-445
HCUFW61	638	862086	AL031666	21171	1-438
HCUFW61	638	862086	AL031666	21172	1-478
HCUFW75	639	575830	AC006512	21173	1-658 3090-3543 4479-5105 5885-6846 7103-9707 9914-10293 11523-12034 12067-12181 13769-14031 14199-14291 14584-14790 15123-15154 17039-17482 17539-17987 18697-19052 19112-19380

					20023-20268 21158-21598 21817-22221 23565-23665 23906-24076 24981-25506 25510-25861 25981-26645 26661-27449 27717-27812 27991-28024 28437-28888 29651-33442 33621-34089 34245-34808 34819-35284 35854-35960 38525-38771
HCUFW75	639	575830	AL356460	21174	1-1488 1588-1716 2931-3073 6554-6658 9098-10459 10650-11167 12010-12230 12299-12697 12717-13036 13370-13822 13909-14224 14268-14695 17385-17715 17812-18047 20669-20769 23441-23581 26125-26550 27281-27342 28204-28321 28726-29150 31153-31314 31375-33728 34014-34308 34343-34521 34662-35415 36638-36933
HCUFW75	639	575830	AC006512	21175	1-315 439-531 707-1080 1144-1227 1491-1845 2113-2321 2700-3556 3818-4307 4336-4813 4958-5775
HCUFW75	639	575830	AC006512	21176	1-738
HCUFW75	639	575830	AL356460	21177	1-383
HCUFX24	641	577266	AC066692	21178	1-413

HCUFX24	641	577266	AC066692	21179	1-448
HCUFX24	641	577266	AC066692	21180	1-86
HCUFY27	643	669876	AC026975	21181	1-122
HCUFY27	643	669876	AC026975	21182	1-199
HCUFY27	643	669876	AC026975	21183	1-344
HCUFY35	644	577130	AL136135	21184	1-573
HCUFY35	644	577130	AL136135	21185	1-596
HCUFY35	644	577130	AL136135	21186	1-112
HCUFY40	645	967273	AL161908	21187	1-272
HCUFY40	645	967273	AL359640	21188	1-272
HCUFY40	645	967273	AL358947	21189	1-272
HCUFZ81	646	878882	AC013717	21190	1-244
HCUFZ81	646	878882	AC013717	21191	1-148
HCUGB48	647	880730	AC016669	21192	1-887
HCUGB48	647	880730	AC016669	21193	1-288
HCUGC96	648	575825	AC022886	21194	1-342 1486-2189 4882-5066
HCUGC96	648	575825	AC021425	21195	1-704
HCUGD15	649	660343	AC013264	21196	1-1147
HCUGD15	649	660343	AC013264	21197	1-513
HCUGG25	652	678112	AC073266	21198	1-428
HCUGG25	652	678112	AC073266	21199	1-105
HCUGH01	653	916600	AC027446	21200	1-319
HCUGH30	654	778735	AL157707	21201	1-864 1621-2105
HCUGH30	654	778735	AL390318	21202	1-863 1620-2104
HCUGH30	654	778735	AC010161	21203	1-863 1620-2104
HCUGH30	654	778735	AL390318	21204	1-320
HCUGH34	655	706469	AC027165	21205	1-603
HCUGH83	656	862078	AP000153	21206	1-198
HCUGH83	656	862078	AP001437	21207	1-198
HCUGH83	656	862078	AP000153	21208	1-100
HCUGH83	656	862078	AP001437	21209	1-100
HCUGJ35	659	850046	AC022278	21210	1-1528 2460-2820 3265-3854 3907-5076
HCUGK10	660	850035	AC073530	21211	1-377
HCUGK10	660	850035	AC073530	21212	1-216
HCUGK91	661	790218	AC007685	21213	1-701
HCUGK91	661	790218	AC007685	21214	1-735
HCUGL84	663	496491	AL121784	21215	1-315
HCUGL84	663	496491	AC007374	21216	1-315
HCUGM08	664	959488	AC026088	21217	1-344
HCUGN12	665	970727	AL138968	21218	1-938
HCUGN12	665	970727	AL138968	21219	1-417
HCUGN12	665	970727	AL138968	21220	1-598
HCUGP83	667	850029	AC026975	21221	1-90 596-896 1368-1489 1499-2819 2945-3399 3703-3793

					5708-5763
HCUGR82	671	916538	AC068012	21222	1-584
HCUGR82	671	916538	AC006407	21223	1-584
HCUGU46	673	666815	AL357044	21224	1-412
HCUGU46	673	666815	AL118511	21225	1-412
HCUGU46	673	666815	AL118511	21226	1-104
HCUGV38	674	850032	AC027644	21227	1-320 374-495 509-1768
HCUGV38	674	850032	AC027644	21228	1-1807
HCUGV38	674	850032	AC027644	21229	1-162
HCUGV60	675	496443	AC048338	21230	1-454
HCUGZ15	678	792418	AC010736	21231	1-574
HCUGZ15	678	792418	AC010736	21232	1-619
HCUHB30	681	850018	AC073580	21233	1-248 268-761 806-989 1080-1559 1806-2291 2504-2602 2722-3086 3247-4184 4246-4797 5605-5701
HCUHB30	681	850018	AC073580	21234	1-287
HCUHC25	682	920830	AC011571	21235	1-389 2032-2214
HCUHC25	682	920830	AL358933	21236	1-55 877-987 3455-3793 4518-4928 6560-6742
HCUHC25	682	920830	AL121944	21237	1-1181 2839-2984 2987-3108 3254-3395 3676-3712 4031-4085 4907-5017 7485-7823 8548-8958 10590-10772
HCUHC25	682	920830	AC011571	21238	1-339
HCUHC25	682	920830	AL121944	21239	1-378
HCUHC41	683	712343	AC025405	21240	1-490 511-768
HCUHC41	683	712343	AL354740	21241	1-490 511-768
HCUHC41	683	712343	AC025405	21242	1-677
HCUHC41	683	712343	AC025405	21243	1-129
HCUHC41	683	712343	AL354740	21244	1-129
HCUHC41	683	712343	AL354740	21245	1-829
HCUHD50	686	650854	AC022559	21246	1-424
HCUHD55	687	705384	AC073838	21247	1-1100
HCUHD55	687	705384	AC021016	21248	1-606
HCUHD55	687	705384	AC073838	21249	1-646

HCUHD55	687	705384	AC073838	21250	1-136 265-419 928-1200
HCUHD55	687	705384	AC021016	21251	1-136 265-419 928-1200
HCUHD55	687	705384	AC021016	21252	1-483
HCUHE23	688	675910	AL161785	21253	1-301
HCUHE31	689	693311	AC073241	21254	1-320
HCUHE31	689	693311	AC073241	21255	1-127
HCUHE31	689	693311	AC073241	21256	1-499
HCUHE48	691	835917	AC026057	21257	1-714
HCUHE48	691	835917	AC026046	21258	1-873 1752-2022 2527-2885 3248-3334 3934-4104 5310-5762 6021-6130 6302-6885 7484-7843 8208-8814 9367-9470 10480-10770 10884-11125
HCUHE48	691	835917	AC026057	21259	1-370
HCUHE48	691	835917	AC026046	21260	1-650
HCUHE76	692	666599	AC025289	21261	1-320
HCUHE76	692	666599	AC010373	21262	1-317
HCUHE76	692	666599	AC002492	21263	1-320
HCUHE76	692	666599	AC025289	21264	1-387
HCUHE76	692	666599	AC010373	21265	1-387
HCUHE76	692	666599	AC002492	21266	1-387
HCUHF41	694	878528	AC022021	21267	1-111
HCUHF41	694	878528	AC074300	21268	1-391 1896-2418
HCUHF41	694	878528	AC074300	21269	1-205
HCUHI34	696	923803	AC016757	21270	1-1147 1574-2170 3047-4275
HCUHI34	696	923803	AC016757	21271	1-561
HCUHI34	696	923803	AC016757	21272	1-1823
HCUHI54	697	720378	AC073950	21273	1-357
HCUHI54	697	720378	AC068232	21274	1-357
HCUHI54	697	720378	AC022890	21275	1-358
HCUHJ12	698	970782	AL031708	21276	1-658
HCUHJ12	698	970782	AL031708	21277	1-116
HCUHJ30	700	966583	AC015656	21278	1-666
HCUHJ30	700	966583	AC015656	21279	1-787
HCUHM61	703	576561	AC016927	21280	1-488
HCUHM61	703	576561	AC024903	21281	1-488
HCUHM61	703	576561	AC020978	21282	1-488
HCUHM61	703	576561	AC016927	21283	1-243
HCUHM61	703	576561	AC024903	21284	1-243
HCUHM61	703	576561	AC016927	21285	1-234
HCUHM61	703	576561	AC024903	21286	1-234

HCUHM61	703	576561	AC020978	21287	1-243
HCUHM61	703	576561	AC020978	21288	1-234
HCUHO60	705	576563	AP000050	21289	1-250
HCUHO60	705	576563	AP000117	21290	1-250
HCUHO60	705	576563	AP000193	21291	1-250
HCUHO60	705	576563	AP000050	21292	1-278
HCUHO60	705	576563	AP000117	21293	1-278
HCUHO60	705	576563	AP000193	21294	1-278
HCUHP20	706	669737	AL161915	21295	1-1425 ·1607-2049 2376-2558 2812-3313 3684-4054 4323-4904 5133-5822 5831-6233 7655-7757 7985-8344 8461-8920 9925-10079 11639-11730 12091-12508 12605-12696 13265-13630 16734-16843 17508-17995 19699-20051 20152-20456 20465-21835
HCUHP20	706	669737	AL353898	21296	1-1425 1607-2049 2376-2558 2812-3313 3684-4054 4321-4901 5130-5819 5828-6230 7652-7754 7982-8341 8458-8917 9914-10068 11628-11719 12080-12497 12594-12685 13254-13619 16723-16832 17497-17984 19694-20046 20147-20451 20460-21830 23249-23779 24379-25638 26019-26761 27223-27579
HCUHQ33	708	575800	AC020651	21297	1-208
HCUHQ33	708	575800	AC021467	21298	1-208
HCUHQ37	709	850010	AP000562	21299	1-922

HCUHQ37	709	850010	AP000763	21300	1-1386
HCUHQ37	709	850010	AP000763	21301	1-414
HCUHQ37	709	850010	AP000562	21302	1-414
HCUHQ37	709	850010	AP000763	21303	1-433
HCUHS19	711	566809	AC068641	21304	1-591
HCUHS19	711	566809	AC009522	21305	1-491 501-1445
HCUHS19	711	566809	AC073860	21306	1-494 504-1448
HCUHS19	711	566809	AC009522	21307	1-445
HCUHS19	711	566809	AC068641	21308	1-313
HCUHS19	711	566809	AC073860	21309	1-313
HCUHS19	711	566809	AC009522	21310	1-314
HCUHS19	711	566809	AC073860	21311	1-445
HCUHS60	712	850009	AL138898	21312	1-400
HCUHS60	712	850009	AL138898	21313	1-313
HCUHS60	712	850009	AL138898	21314	1-702
HCUHT21	713	577265	AC025321	21315	1-875
HCUHT21	713	577265	AP000977	21316	1-874
HCUHT21	713	577265	AP002365	21317	1-875
HCUHT21	713	577265	AC025321	21318	1-313
HCUHT21	713	577265	AP000977	21319	1-313
HCUHT21	713	577265	AP002365	21320	1-313
HCUHT56	714	722649	AL121808	21321	1-298 433-904
HCUHT56	714	722649	AL121808	21322	1-120
HCUHU68	715	577795	Z98883	21323	1-260
HCUHW54	716	730716	AL137799	21324	1-1372 1893-2026 4306-4482 4576-4849 5251-5421 5429-5539 5812-5941 5998-6115
HCUHW54	716	730716	AL157894	21325	1-111
HCUHW54	716	730716	AL122001	21326	1-111
HCUHW54	716	730716	AL157894	21327	1-712 1233-1366 3646-3822 3916-4189 4591-4761
HCUHW54	716	730716	AL157894	21328	1-105
HCUHW54	716	730716	AL122001	21329	1-843 2402-2838 3590-4088 4287-5795 5823-7049 7473-7550 7791-7890 8364-8687 8949-9064 10239-10517 12066-12193 12628-12869 14063-14185

					15602-15751
					16137-16292
					16666-16956
					17262-17481
					18076-18588
					19202-19391
					19857-19981
					20909-21222
					21544-21698
					22059-22200
					22449-23820
					24341-24474
					26754-26930
					27024-27297
					27699-27869
HCUHW54	716	730716	AL122001	21330	1-114
HCUHW59	717	739329	AL078461	21331	1-641
HCUHW59	717	739329	AL078461	21332	1-388
HCUHW59	717	739329	AL078461	21333	1-274
HCUHY49	718	577887	AL121841	21334	1-327
HCUHY49	718	577887	AL121841	21335	1-529
HCUIJ35	720	713818	AC007908	21336	1-446
HCUIJ35	720	713818	AC007908	21337	1-396
HCUIJ35	720	713818	AC007908	21338	1-414
HCUIL80	721	577172	AC005200	21339	1-229
HCUIL80	721	577172	AC008605	21340	1-219
HCUIL80	721	577172	AC011432	21341	1-238
HCUIL80	721	577172	AC005200	21342	1-111
HCUIL80	721	577172	AC008605	21343	1-935
HCUIL80	721	577172	AC011432	21344	1-935
HCUIL80	721	577172	AC011432	21345	1-111
HCUIM51	722	725724	AC023148	21346	1-631
					963-1448
HCUIM51	722	725724	AC023148	21347	1-358
HCUIM51	722	725724	AC023148	21348	1-88
HCUIN18	723	666537	AC024386	21349	1-1094
HCUIN18	723	666537	AC024386	21350	1-514
HCUIO82	724	883812	AC025983	21351	1-188
HCUIO82	724	883812	AC025983	21352	1-414
HCVAC18	725	889480	AL356004	21353	1-170
HCVAC18	725	889480	AC022965	21354	1-170
HCVAC18	725	889480	AL356004	21355	1-351
HCVAC18	725	889480	AL356004	21356	1-228
HCVAC18	725	889480	AC022965	21357	1-228
HCWAA20	726	669991	AC013322	21358	1-121
HCWAB01	727	921689	AC025552	21359	1-443
HCWAB01	727	921689	AC025552	21360	1-105
HCWAB01	727	921689	AC025552	21361	1-271
HCWAB44	728	669714	AC023785	21362	1-415
HCWAB44	728	669714	AC013743	21363	1-415
HCWAB44	728	669714	AC023785	21364	1-129
HCWAB44	728	669714	AC013743	21365	1-129
HCWAB44	728	669714	AC013743	21366	1-315
HCWAB50	729	724684	AC037489	21367	1-1353
HCWAB50	729	724684	AC037489	21368	1-636
HCWAB50	729	724684	AC037489	21369	1-289

HCWAB67	731	529658	AC020706	21370	1-125
HCWAB67	731	529658	AC020706	21371	1-721
HCWAB80	732	959937	AC073185	21372	1-428
HCWAB80	732	959937	AC011473	21373	1-428
HCWAB92	733	523447	AC053524	21374	1-303
HCWAC68	734	529653	AL353639	21375	1-348
HCWAC68	734	529653	AL353577	21376	1-348
HCWAF02	737	920993	AL157411	21377	1-666
HCWAF02	737	920993	AC026928	21378	1-667
HCWAF02	737	920993	AL157411	21379	1-426
HCWAF02	737	920993	AC026928	21380	1-426
HCWAF45	738	723452	AC003957	21381	1-2074 2208-2961 3846-4003 5779-6211 6777-7408 8068-8181 8797-9010 10161-10689
HCWAF45	738	723452	AJ009617	21382	1-2074 2208-2432 2773-2964 3849-4006 5783-6215 6781-7427 8087-8200 8816-9029 10180-10708
HCWAF80	740	529498	AL109916	21383	1-1771
HCWAF80	740	529498	AL158035	21384	1-1771
HCWAF80	740	529498	AL109916	21385	1-332
HCWAF80	740	529498	AL109916	21386	1-319
HCWAF80	740	529498	AL158035	21387	1-332
HCWAF80	740	529498	AL158035	21388	1-319
HCWAG20	741	839796	AC016045	21389	1-306
HCWAH52	743	574929	AC010537	21390	1-430
HCWAI93	744	523536	AL121586	21391	1-397
HCWAI93	744	523536	AL139226	21392	1-397
HCWAI93	744	523536	AL121586	21393	1-375
HCWAI93	744	523536	AL121586	21394	1-107
HCWAI93	744	523536	AL139226	21395	1-375
HCWAI93	744	523536	AL139226	21396	1-107
HCWAJ58	746	740987	AL357500	21397	1-473
HCWAK51	747	751640	AL356285	21398	1-311
HCWAK51	747	751640	AL138817	21399	1-311
HCWAK51	747	751640	AL138817	21400	1-476
HCWAK80	748	702435	AC069204	21401	1-559
HCWAL22	750	579046	AC005327	21402	1-107 2527-2576 2659-2939 3786-3924 4335-4491 5742-6149 6493-7117 8913-9611 9724-9855

					10449-10598 11026-11182 11261-11513 12218-12404
HCWAL22	750	579046	AC005327	21403	1-152
HCWAL22	750	579046	AC005327	21404	1-109
HCWAL39	751	861893	AC012264	21405	1-585
HCWAL39	751	861893	AC012264	21406	1-767
HCWAL39	751	861893	AC012264	21407	1-546
HCWAM49	754	849980	AL162734	21408	1-500
HCWAM49	754	849980	AL353807	21409	1-500
HCWAM49	754	849980	AC044819	21410	1-468
HCWAM49	754	849980	AL353807	21411	1-468
HCWAM49	754	849980	AL353807	21412	1-242
HCWAN17	755	966646	AL356273	21413	1-363 411-1064 1455-2399
HCWAN17	755	966646	AL356273	21414	1-863
HCWAN17	755	966646	AL356273	21415	1-320
HCWAP63	757	523259	AL133509	21416	1-653
HCWAP63	757	523259	AL022067	21417	1-653
HCWAP63	757	523259	AL133509	21418	1-183
HCWAP63	757	523259	AL022067	21419	1-183
HCWAR63	761	523255	AL353591	21420	1-436
HCWAR63	761	523255	AL121935	21421	1-436
HCWAR63	761	523255	AL353747	21422	1-436
HCWAR63	761	523255	AL353591	21423	1-333
HCWAR63	761	523255	AL121935	21424	1-333
HCWAR63	761	523255	AL353747	21425	1-333
HCWAR76	762	529652	AC008795	21426	1-493
HCWAR76	762	529652	AC011145	21427	1-493
HCWAR76	762	529652	AC011145	21428	1-273
HCWAR76	762	529652	AC008795	21429	1-292
HCWAR84	763	529241	AC010877	21430	1-200
HCWAR84	763	529241	AC005820	21431	1-200
HCWAT16	764	523125	AP001977	21432	1-367
HCWAT16	764	523125	AP001977	21433	1-374
HCWAU89	767	589836	AL358412	21434	1-470
HCWAU89	767	589836	AL358412	21435	1-387
HCWAU89	767	589836	AL358412	21436	1-386
HCWAV75	768	849976	AC012291	21437	1-1778 1781-1957 2043-2363 2713-2892 4084-4790 5686-6091 7733-8602 9714-10226 10287-10384 11933-12221 12816-13259 13787-14103 14986-15076 15346-15505 15617-15906 16128-16243

					16875-17012 17290-18033 18072-18373 18782-21480
HCWAV75	768	849976	AC010757	21438	1-1779 1781-1957 2043-2363 2713-2892 5684-6089 7732-8601 9713-10225 10286-10383 11930-12218 12827-13257 13784-14100 14983-15073 15343-15502 15614-15903 16125-16240 16872-17009 17287-18030 18069-18370 18779-21477
HCWAV75	768	849976	AC012291	21439	1-1855
HCWAV75	768	849976	AC010757	21440	1-1855
HCWAY41	769	542388	AC008853	21441	1-467
HCWAZ66	772	523243	AL355032	21442	1-421
HCWAZ66	772	523243	AL137779	21443	1-421
HCWAZ66	772	523243	AL355032	21444	1-819
HCWAZ66	772	523243	AL137779	21445	1-498
HCWAZ66	772	523243	AL137779	21446	1-819
HCWAZ73	773	523299	AC009133	21447	1-637
HCWAZ73	773	523299	AC009133	21448	1-733
HCWAZ73	773	523299	AC009133	21449	1-149 809-940 953-1562 1613-2034 2376-3566
HCWBA18	775	529224	AC008731	21450	1-193
HCWBA18	775	529224	AC008731	21451	1-266
HCWBA18	775	529224	AC008731	21452	1-635
HCWBA49	777	723359	AC011431	21453	1-336
HCWBA49	777	723359	AC005576	21454	1-336
HCWBA49	777	723359	AC005576	21455	1-363
HCWBA49	777	723359	AC005576	21456	1-305
HCWBA50	778	835532	AC009696	21457	1-377
HCWBA50	778	835532	AC015905	21458	1-377
HCWBA55	779	529222	AL133323	21459	1-598
HCWBA55	779	529222	AL133323	21460	1-133
HCWBA55	779	529222	AL133323	21461	1-838
HCWBA64	780	715579	AC012405	21462	1-194
HCWBA64	780	715579	AC011126	21463	1-194
HCWBB27	781	967045	AC025620	21464	1-391
HCWBB27	781	967045	AC074292	21465	1-391
HCWBB27	781	967045	AC027544	21466	1-391
HCWBC16	783	529350	AC027644	21467	1-1807

HCWBC16	783	529350	AC027644	21468	1-1260 1274-1395 1449-1768
HCWBC28	784	584778	AL162457	21469	1-350
HCWBC28	784	584778	AL162457	21470	1-261
HCWBC32	785	574909	AP000933	21471	1-658
HCWBC54	786	573188	AC016953	21472	1-215 500-1196 1249-1444 3222-3370 3870-3977 4172-4499 4677-5094 5806-5921 7242-7343 7717-8446 8779-9234 9629-9931 10188-10290 10386-10743 10849-11509 11795-12681 12719-12794 12841-12952 13740-13865 14194-15782 16120-16162 16703-18302 18399-18505 19872-20300 21070-21216 21619-21761
HCWBC54	786	573188	AC016953	21473	1-354
HCWBC61	787	728666	AC021980	21474	1-314
HCWBC61	787	728666	AC007679	21475	1-314
HCWBC61	787	728666	AC021980	21476	1-159
HCWBC61	787	728666	AC007679	21477	1-159
HCWBC69	788	849971	AL356275	21478	1-480
HCWBC69	788	849971	AL354881	21479	1-480
HCWBC69	788	849971	AL354881	21480	1-924
HCWBC69	788	849971	AL356275	21481	1-532
HCWBC69	788	849971	AL354881	21482	1-532
HCWBE37	793	542403	AL109760	21483	1-478
HCWBE37	793	542403	AL109760	21484	1-110
HCWBE49	794	932196	AC019276	21485	1-421
HCWBE51	795	782317	AC016042	21486	1-538
HCWBE51	795	782317	AL355530	21487	1-538
HCWBE51	795	782317	AC016042	21488	1-367
HCWBE51	795	782317	AC016042	21489	1-351
HCWBE51	795	782317	AL355530	21490	1-367
HCWBE51	795	782317	AL355530	21491	1-349
HCWBE71	798	688011	AC021404	21492	1-598
HCWBE71	798	688011	AL359377	21493	1-598
HCWBE76	799	968515	AC023603	21494	1-147
HCWBE76	799	968515	AC023603	21495	1-378
HCWBE76	799	968515	AC023603	21496	1-841

HCWBG30	801	920530	AC025446	21497	1-292
HCWBG30	801	920530	AC025171	21498	1-292
HCWBG30	801	920530	AC025446	21499	1-463
HCWBG30	801	920530	AC025171	21500	1-462
HCWBG30	801	920530	AC025171	21501	1-382
HCWBG40	802	676588	AC008576	21502	1-556
HCWBG40	802	676588	AC008576	21503	1-102
HCWBG43	804	689743	AC024395	21504	1-204
HCWBG43	804	689743	AC068588	21505	1-204
HCWBG43	804	689743	AC068588	21506	1-460
HCWBI17	807	954153	AC002316	21507	1-457
HCWBI17	807	954153	AC002316	21508	1-202
HCWBI77	811	529238	AC013413	21509	1-231
HCWBI77	811	529238	AC013403	21510	1-231
HCWBI77	811	529238	AC013413	21511	1-176
HCWBI77	811	529238	AC013403	21512	1-84
HCWBJ02	813	917300	AC011389	21513	1-442
HCWBJ02	813	917300	AC011389	21514	1-430
HCWBJ61	815	849967	AL139095	21515	1-201 308-420
HCWBJ61	815	849967	AL139095	21516	1-321
HCWBJ66	816	529228	AL080247	21517	1-102
HCWBJ66	816	529228	AL022328	21518	1-102
HCWBJ75	817	935579	AC013303	21519	1-1010
HCWBJ75	817	935579	AC013303	21520	1-513
HCWBJ75	817	935579	AC013303	21521	1-664
HCWBL38	820	935481	AC010934	21522	1-86 340-460 3984-4049 4541-4642 6849-6951 7624-7707 9920-10079 10719-11005 11360-11762 11928-12350 12522-12661 13596-14781
HCWBL38	820	935481	AC010934	21523	1-101
HCWBM04	822	861842	AC074032	21524	1-1666 1783-2591 3023-3196 3201-3364 3447-4235 4425-4558 4895-5530
HCWBM04	822	861842	AC074032	21525	1-188
HCWBM50	823	577712	AL160276	21526	1-413
HCWBM50	823	577712	AL160276	21527	1-349
HCWBM50	823	577712	AL160276	21528	1-323
HCWBM95	824	849932	AC013486	21529	1-1021
HCWBM95	824	849932	AC013486	21530	1-675
HCWBN06	825	924638	AC025335	21531	1-381
HCWBO10	826	842038	AC022911	21532	1-396
HCWBO10	826	842038	AC011726	21533	1-396
HCWBO10	826	842038	AC022911	21534	1-525

HCWBO10	826	842038	AC011726	21535	1-525
HCWBO23	827	964590	AC073087	21536	1-170
HCWBO23	827	964590	AC073150	21537	1-170
HCWBO23	827	964590	AC007130	21538	1-170
HCWBO23	827	964590	AC073150	21539	1-286
HCWBO23	827	964590	AC073150	21540	1-344
HCWBO23	827	964590	AC007130	21541	1-280
HCWBO23	827	964590	AC007130	21542	1-344
HCWBO94	828	574861	AC012171	21543	1-453 662-1183 1688-2046 2552-2895 5176-5385 5613-7953 7964-8453 8613-8998 9001-9528 10043-10465 10594-10713 11006-11287 11297-12256 12370-12580 13543-13831 14060-14646 15490-17915 18037-18423 18433-18697 18870-18973 19161-20323
HCWBO94	828	574861	AC024088	21544	1-373
HCWBO94	828	574861	AC007162	21545	1-202 411-932 1436-1794 2300-2643 4922-5131 5358-7697 7708-8197 8357-8741 8744-9272 9787-10209 10338-10457 10750-11031 11041-12000 12039-12324 13288-13576 13805-14390 15234-17659 17781-18167 18177-18444 18615-18718 18906-20068
HCWBO94	828	574861	AC009065	21546	1-387
HCWBO94	828	574861	AC005212	21547	1-198 407-928 1433-1791 2297-2640 4920-5129

					5357-7696
					7707-8196
					8356-8741
					8744-9272
					9787-10209
					10338-10457
					10750-11031
					11041-12000
					12114-12318
					13804-14390
					15234-17659
					17781-18167
					18177-18446
					18905-20067
HCWBO94	828	574861	AC012171	21548	1-110
HCWBO94	828	574861	AC024088	21549	1-656
HCWBO94	828	574861	AC007162	21550	1-237
HCWBO94	828	574861	AC009065	21551	1-2426
HCWBO94	828	574861	AC007162	21552	1-110
HCWBO94	828	574861	AC005212	21553	1-237
HCWBO94	828	574861	AC005212	21554	1-110
HCWBP56	830	733662	AC018590	21555	1-220
HCWBP56	830	733662	AP001526	21556	1-226
HCWBP56	830	733662	AC063958	21557	1-752
					2898-3193
					4752-4858
					4984-5079
HCWBP56	830	733662	AC023169	21558	1-92
HCWBP56	830	733662	AC025422	21559	1-199
HCWBP56	830	733662	AC002110	21560	1-101
HCWBP56	830	733662	AC022118	21561	1-1212
					3358-3653
					5212-5321
					5444-5539
					9251-9324
HCWBP56	830	733662	AC022118	21562	1-383
HCWBP70	831	757467	AC022971	21563	1-431
HCWBP70	831	757467	AC004934	21564	1-431
HCWBP74	832	765881	AC025243	21565	1-376
HCWBP74	832	765881	AC025243	21566	1-409
HCWBP74	832	765881	AC025243	21567	1-127
HCWBQ74	837	526537	AC068340	21568	1-375
HCWBQ74	837	526537	AC068340	21569	1-151
HCWBQ74	837	526537	AC068340	21570	1-491
HCWBR06	839	527692	AL135795	21571	1-442
					669-773
					784-1178
HCWBS67	842	842037	AC008630	21572	1-83
					157-299
					681-1012
					1557-1654
					2179-2501
					2568-2937
					2996-3314
HCWBS67	842	842037	AC025556	21573	1-370
HCWBS67	842	842037	AC025556	21574	1-306

HCWBS67	842	842037	AC025556	21575	1-321
HCWBS96	843	954028	AC069495	21576	1-348 3003-4292 4699-4984
HCWBT31	845	720016	AC018692	21577	1-449
HCWBT31	845	720016	AC018692	21578	1-620
HCWBT48	846	527676	AC027250	21579	1-587
HCWBT48	846	527676	AC017038	21580	1-587
HCWBT48	846	527676	AC027250	21581	1-490
HCWBT48	846	527676	AC017038	21582	1-490
HCWBT86	847	927506	AC019119	21583	1-339
HCWBT86	847	927506	AC023820	21584	1-413 466-1296 2041-2210 2312-2581 22533-22618 29429-29711 32494-32832 36221-42488
HCWBT86	847	927506	AC023820	21585	1-970
HCWBT86	847	927506	AC023820	21586	1-359
HCWBU09	848	527562	AC012455	21587	1-336
HCWBU09	848	527562	AC067791	21588	1-336
HCWBU24	849	861864	AL139039	21589	1-282
HCWBU49	850	850014	AC018571	21590	1-361
HCWBU49	850	850014	AC046185	21591	1-361
HCWBU49	850	850014	AC018571	21592	1-878
HCWBU49	850	850014	AC046185	21593	1-878
HCWBU49	850	850014	AC046185	21594	1-33 4030-4387 5173-5274
HCWBV96	854	796584	AP001075	21595	1-580
HCWBV96	854	796584	AP000807	21596	1-393
HCWBV96	854	796584	AP001075	21597	1-437
HCWBV96	854	796584	AP000807	21598	1-437
HCWBX75	858	767491	AC026727	21599	1-270
HCWBX75	858	767491	AC012426	21600	1-126
HCWBX75	858	767491	AC013770	21601	1-270
HCWCB37	861	527683	AL133288	21602	1-1022
HCWCB37	861	527683	AL133288	21603	1-284
HCWCB80	862	529234	AC073598	21604	1-345
HCWCB80	862	529234	AL138752	21605	1-345
HCWCB80	862	529234	AC073598	21606	1-856
HCWCB80	862	529234	AL138752	21607	1-856
HCWCB80	862	529234	AL138752	21608	1-1141 2164-2338
HCWCC77	865	527077	AL355860	21609	1-423
HCWCC77	865	527077	AC027437	21610	1-423
HCWCC77	865	527077	AL355860	21611	1-275
HCWCC77	865	527077	AC027437	21612	1-275
HCWCC77	865	527077	AL355860	21613	1-497
HCWCC77	865	527077	AC027437	21614	1-497
HCWCE02	867	849968	AC008980	21615	1-87
HCWCE02	867	849968	AC025899	21616	1-1813
HCWCE02	867	849968	AC067868	21617	1-1813
HCWCE02	867	849968	AC025899	21618	1-887

HCWCE02	867	849968	AC025899	21619	1-474
HCWCE02	867	849968	AC067868	21620	1-886
HCWCE02	867	849968	AC067868	21621	1-474
HCWCE21	868	523224	AC024293	21622	1-433
HCWCE21	868	523224	AC024293	21623	1-134
HCWCE35	869	706489	AC005995	21624	1-293
HCWCE35	869	706489	AC073343	21625	1-294
HCWCE35	869	706489	AC004983	21626	1-63 4211-4504 4558-4709 5148-5176
HCWCE35	869	706489	AC005995	21627	1-272
HCWCE35	869	706489	AC004983	21628	1-115
HCWCE63	870	527678	AC013709	21629	1-385
HCWCE63	870	527678	AC013709	21630	1-100
HCWCE69	871	757800	AL139084	21631	1-311
HCWCE69	871	757800	AL139038	21632	1-311
HCWCE69	871	757800	AL391122	21633	1-311
HCWCE71	872	932549	AC012342	21634	1-147
HCWCE71	872	932549	AC068013	21635	1-125
HCWCE71	872	932549	AC009997	21636	1-117
HCWCE71	872	932549	AC015734	21637	1-137
HCWCE71	872	932549	AC074269	21638	1-166
HCWCE71	872	932549	AP002357	21639	1-170
HCWCE71	872	932549	AC022813	21640	1-161
HCWCE71	872	932549	AL356584	21641	1-117
HCWCE71	872	932549	AC024380	21642	1-157
HCWCE71	872	932549	AC002037	21643	1-72
HCWCE71	872	932549	AC005933	21644	1-52
HCWCE71	872	932549	AC018570	21645	1-131
HCWCE71	872	932549	AC009562	21646	1-95
HCWCE71	872	932549	AC009502	21647	1-122
HCWCE71	872	932549	AL355392	21648	1-126
HCWCE71	872	932549	AC011111	21649	1-115
HCWCE71	872	932549	AC022025	21650	1-141
HCWCE71	872	932549	AC034240	21651	1-141
HCWCE71	872	932549	AC008439	21652	1-125
HCWCE71	872	932549	AC024502	21653	1-163
HCWCE71	872	932549	AC068594	21654	1-121
HCWCE71	872	932549	AC068025	21655	1-127
HCWCE71	872	932549	AC022083	21656	1-144
HCWCE71	872	932549	AC012118	21657	1-289
HCWCE71	872	932549	AC034138	21658	1-289
HCWCE71	872	932549	AC002351	21659	1-82 959-2236
HCWCE71	872	932549	AC022083	21660	1-131
HCWCE71	872	932549	AC012342	21661	1-413 437-758
HCWCE71	872	932549	AC024380	21662	1-154
HCWCE71	872	932549	AC012118	21663	1-252 1886-2376 3124-3156
HCWCE71	872	932549	AC012118	21664	1-230
HCWCE71	872	932549	AC034138	21665	1-230
HCWCE71	872	932549	AC034138	21666	1-252 1885-2375

					3123-3155
HCWCE71	872	932549	AC002351	21667	1-115
HCWCG31	878	527090	AC016446	21668	1-317
HCWCG31	878	527090	AC016446	21669	1-105
HCWCG62	879	575336	AC011743	21670	1-174 294-500 666-1543 1691-1855 1960-2582 2667-2700 2933-3375 3400-3486 3585-3762 3958-6673 7025-7599 7971-9976 10767-11076
HCWCG62	879	575336	AC009948	21671	1-174 295-500 666-1543 1691-1855 1960-2582 2667-2700 2933-3375 3585-3762 3958-4675 4786-6672 7024-7598 7970-9975 10766-11075 11265-11828 12489-13077 13297-15154 16020-16316 16758-17210 18079-18398 19515-20009 20250-20444
HCWCG62	879	575336	AC011743	21672	1-521
HCWCG62	879	575336	AC011743	21673	1-564
HCWCG62	879	575336	AC009948	21674	1-521
HCWCG62	879	575336	AC009948	21675	1-588
HCWCH22	881	675011	AL138762	21676	1-491
HCWCH22	881	675011	AL138762	21677	1-232
HCWCI01	883	921586	AC023958	21678	1-491
HCWCI01	883	921586	AL163032	21679	1-491
HCWCI01	883	921586	AC023958	21680	1-194
HCWCI01	883	921586	AL163032	21681	1-194
HCWCI86	885	790718	AC055809	21682	1-700
HCWCI86	885	790718	AC055809	21683	1-356
HCWCJ85	886	529243	AC008878	21684	1-314
HCWCJ85	886	529243	AC008878	21685	1-368
HCWCM96	892	963564	AC009309	21686	1-959 1851-2415 3778-3911 4196-4688 7008-7700

					9323-9553
					9684-10186
					12093-12315
					12536-12679
					14404-14894
					15246-15747
					16029-16504
					17694-17861
					18052-18157
					18427-18774
					19095-19466
					19732-19963
					20139-20236
					20813-21313
					22583-22719
					23242-23445
					24420-24713
					24746-25108
					25397-25797
					25824-26169
					26584-26921
					27283-27422
					27752-28268
					29725-29836
					34235-34345
					35508-35698
					37375-37449
HCWCM96	892	963564	AC009309	21687	1-158
HCWCN25	893	518793	AC007526	21688	1-306
HCWCN25	893	518793	AC026407	21689	1-305
HCWCN25	893	518793	AC011394	21690	1-305
HCWCN40	894	835584	AC044909	21691	1-295
HCWCN40	894	835584	AL032822	21692	1-295
HCWCN45	895	723418	AC046170	21693	1-533
HCWCN45	895	723418	AC019319	21694	1-533
HCWCN45	895	723418	AC004098	21695	1-533
HCWCN45	895	723418	AC046170	21696	1-273
HCWCN45	895	723418	AC019319	21697	1-281
HCWCN45	895	723418	AC004098	21698	1-264
HCWCO35	900	706490	AC069530	21699	1-515
HCWCO35	900	706490	AC069530	21700	1-360
HCWCO35	900	706490	AC069530	21701	1-120 201-397
HCWCO54	901	558274	AC007677	21702	1-412
HCWCO63	902	557917	AL160003	21703	1-426
HCWCO63	902	557917	AL160003	21704	1-540
HCWCO72	903	527546	AC005907	21705	1-625 818-1610 1948-2135 2489-2979 3346-3483 4096-4499 4930-5027 5029-5317 5352-5562 6246-6884 8347-8499

					8550-9149 9176-11308 11751-11850 11856-11872
HCWCO77	904	772515	AC009753	21706	1-105
HCWCO77	904	772515	AC009851	21707	1-105
HCWCO77	904	772515	AC009753	21708	1-138
HCWCO77	904	772515	AC009851	21709	1-130
HCWCP68	905	573148	AC022255	21710	1-434
HCWCP68	905	573148	AC022255	21711	1-107
HCWCP68	905	573148	AC022255	21712	1-269
HCWCQ15	906	527688	AL008639	21713	1-92 345-408 3923-4122 4188-4303 4746-5500 5932-6031 7443-7652 9516-9669 9915-10435 10976-11296 11458-11936 12133-13345
HCWCQ15	906	527688	AL008639	21714	1-720
HCWCQ48	907	531423	AL133284	21715	1-175
HCWCR64	910	526482	AC074289	21716	1-429
HCWCR64	910	526482	AC012368	21717	1-430
HCWCR64	910	526482	AC012368	21718	1-349 831-1388
HCWCR64	910	526482	AC074289	21719	1-349 831-1388 2666-3325
HCWCR64	910	526482	AC012368	21720	1-379
HCWCS12	911	585202	AL136303	21721	1-676
HCWCS51	912	921636	AC027752	21722	1-225
HCWCS51	912	921636	AC068583	21723	1-225
HCWCS51	912	921636	AC068583	21724	1-2107
HCWCT07	913	954070	AC011448	21725	1-226
HCWCT07	913	954070	AC011448	21726	1-324
HCWCT23	914	676336	AC068236	21727	1-255
HCWCT23	914	676336	AC015760	21728	1-255
HCWCT48	915	741925	AC005599	21729	1-255
HCWCT48	915	741925	AC005599	21730	1-102
HCWCT85	916	527543	AP001769	21731	1-359
HCWCT85	916	527543	AP000648	21732	1-359
HCWCT85	916	527543	AP000827	21733	1-359
HCWCU01	917	921618	AL109923	21734	1-255 936-1628
HCWCU01	917	921618	AL109923	21735	1-228
HCWCU01	917	921618	AL109923	21736	1-104
HCWCU17	918	577688	AC025525	21737	1-549
HCWCU17	918	577688	AC025525	21738	1-116
HCWCU57	920	764602	AC027808	21739	1-665
HCWCU57	920	764602	AC027808	21740	1-339
HCWCU57	920	764602	AC027808	21741	1-1301
HCWCU58	921	527695	AC009125	21742	1-311

HCWCU58	921	527695	AC009060	21743	1-51 217-367 1365-1452 1822-2008 2752-2863 4261-4457 6970-7091 10302-10457 10503-11101 11433-11898 12489-12601 14202-14297 15184-15322 16533-16621 16693-16857 17303-17359 17869-18145 19499-20015 20581-20799 21367-21642 22148-22233 23901-24407 24541-25102 25181-30620
HCWCU58	921	527695	AC009060	21744	1-595
HCWCU63	922	527541	AC017030	21745	1-173
HCWCU63	922	527541	AC020916	21746	1-173
HCWCU63	922	527541	AC017030	21747	1-207
HCWCU63	922	527541	AC017030	21748	1-1328
HCWCU63	922	527541	AC020916	21749	1-1331
HCWCU63	922	527541	AC020916	21750	1-547 1076-1793
HCWCU94	923	713416	AC027603	21751	1-553
HCWCU94	923	713416	AC011326	21752	1-553
HCWCU94	923	713416	AC026328	21753	1-553
HCWCV01	924	921569	AC026539	21754	1-350
HCWCV01	924	921569	AL031662	21755	1-55 1367-1716 5004-5109 5654-5774 6096-6164 6298-6354 7295-7421 10538-10857 11013-11061 11800-12057 12301-12438 14866-14898 14984-15038 15240-15420 17689-19632
HCWCV01	924	921569	AL031662	21756	1-258
HCWCV09	925	861950	AC011639	21757	1-420
HCWCV09	925	861950	AC016824	21758	1-420
HCWCV09	925	861950	AC009679	21759	1-420
HCWCV09	925	861950	AC016824	21760	1-1095
HCWCV09	925	861950	AC009679	21761	1-1095

HCWCV16	926	861839	AC024647	21762	1-500
HCWCV16	926	861839	AC024647	21763	1-679
HCWCV58	927	966512	AC041008	21764	1-458
HCWCV58	927	966512	AC015719	21765	1-458
HCWCV58	927	966512	AC041008	21766	1-309
HCWCV58	927	966512	AC015719	21767	1-309
HCWCV75	928	527080	AL138889	21768	1-388
HCWCV75	928	527080	AL138889	21769	1-365
HCWCV85	929	966987	AC004801	21770	1-338
HCWCX18	931	574933	AC055725	21771	1-360
HCWCX18	931	574933	AC023415	21772	1-360
HCWCX18	931	574933	AC023797	21773	1-120 135-715 1005-1364 1715-2180 2566-2672 3355-3621 3641-4033 4196-4285 5100-7482
HCWCX18	931	574933	AC055725	21774	1-466
HCWCX18	931	574933	AC023415	21775	1-581
HCWCX18	931	574933	AC023797	21776	1-463
HCWCX18	931	574933	AC023415	21777	1-466
HCWCY16	932	507191	AC009131	21778	1-230
HCWCY16	932	507191	AC009027	21779	1-230
HCWCY16	932	507191	AC009131	21780	1-110
HCWCY16	932	507191	AC009027	21781	1-110
HCWDB74	934	521894	AL161458	21782	1-294
HCWDB74	934	521894	AL161458	21783	1-299
HCWDD15	936	660571	AC046158	21784	1-382
HCWDD60	937	575555	AC009148	21785	1-164
HCWDD60	937	575555	AC021880	21786	1-164
HCWDD60	937	575555	AC021116	21787	1-164
HCWDH65	940	574250	AC068588	21788	1-505
HCWDH65	940	574250	AC068025	21789	1-505
HCWDH65	940	574250	AC068025	21790	1-139
HCWDH92	942	790618	AL354973	21791	1-401
HCWDI37	943	849867	AC024231	21792	1-382
HCWDI64	945	924632	AC068317	21793	1-359 1176-1454 1583-1848 1984-2236 2745-3037 3839-4417 4908-5403 5980-6204 6798-6833
HCWDI64	945	924632	AL358232	21794	1-293
HCWDI64	945	924632	AL160055	21795	1-293
HCWDI64	945	924632	AL358232	21796	1-448
HCWDI64	945	924632	AL358232	21797	1-253
HCWDI64	945	924632	AL160055	21798	1-36 328-607 736-1001 1137-1389

HCWDI64	945	924632	AL160055	21799	1-579
HCWDI72	946	573034	AC025882	21800	1-175
HCWDI72	946	573034	AC025882	21801	1-443
HCWDI79	947	526765	AC016802	21802	1-401
HCWDI79	947	526765	AC025924	21803	1-401
HCWDI79	947	526765	AC019049	21804	1-401
HCWDI89	949	953750	AP001268	21805	1-1253
HCWDI89	949	953750	AP001268	21806	1-356
HCWDI89	949	953750	AP001268	21807	1-285
HCWDI92	950	733422	AP000486	21808	1-202
HCWDI92	950	733422	AP000486	21809	1-314
HCWDJ21	951	524780	AL078474	21810	1-378
HCWDJ21	951	524780	AP000456	21811	1-378
HCWDJ31	953	531418	AC013379	21812	1-467
HCWDJ31	953	531418	AC013379	21813	1-660
HCWDJ45	954	523227	AC003678	21814	1-382
HCWDJ45	954	523227	AC003678	21815	1-341
HCWDJ45	954	523227	AC003678	21816	1-2063
HCWDJ89	955	697736	AL365218	21817	1-472
HCWDJ89	955	697736	AL160287	21818	1-471
HCWDJ89	955	697736	AL365218	21819	1-100
HCWDJ89	955	697736	AL160287	21820	1-100
HCWDL19	956	669721	AC019167	21821	1-363
HCWDL19	956	669721	AC036172	21822	1-363
HCWDL19	956	669721	AC019167	21823	1-1343
HCWDL45	957	889416	AC023100	21824	1-1181
HCWDL45	957	889416	Z98747	21825	1-1181
HCWDM02	959	920563	AC034250	21826	1-420
HCWDM14	962	849962	AC009119	21827	1-407
HCWDM23	963	676215	AC025157	21828	1-466
HCWDM23	963	676215	AC025157	21829	1-128
HCWDM60	964	754785	AC008542	21830	1-550 1475-1565 1656-1701 2491-2682 2914-3063 3183-3251 3356-3457 3789-3893 4285-4364 4397-4940 5629-5919 8897-9097 9145-9476 9692-9891
HCWDM60	964	754785	AC008542	21831	1-451
HCWDM79	965	578967	AC011308	21832	1-432
HCWDM79	965	578967	AC021849	21833	1-432
HCWDN15	966	557862	AC010359	21834	1-462
HCWDN15	966	557862	AC010356	21835	1-462
HCWDN15	966	557862	AC008889	21836	1-462
HCWDN15	966	557862	AC010359	21837	1-378
HCWDN15	966	557862	AC010356	21838	1-219
HCWDN15	966	557862	AC010359	21839	1-219
HCWDN15	966	557862	AC010356	21840	1-381
HCWDN15	966	557862	AC008889	21841	1-219

HCWDN15	966	557862	AC008889	21842	1-381
HCWDN60	967	861882	AC022814	21843	1-268
HCWDN60	967	861882	Z99714	21844	1-153 1584-2108 4403-4562 5304-5525 6006-6361 6631-7469 8244-8458 9360-9743 10650-11161 11409-11527 12203-12977 13014-13109 13636-13836 15204-15942 16118-16668 16775-17040 17562-18374 18999-19910 20892-21198 21815-21924 22895-23580 24862-25003 25250-25382 25859-25968 27407-27447 28073-29317 30419-31796 31850-32347 33907-34503
HCWDN60	967	861882	Z99714	21845	1-151 1020-1186 2420-2952 3080-3188 3495-4160 4177-4432 5168-5639 5737-5983 6477-6794 7112-7260 7397-9014 9067-9212 9443-11500 11855-12013 13566-13667 13767-14028 15994-16031 17955-18132
HCWDO56	969	961273	AC062037	21846	1-155 501-1118 1134-1271 1377-1602 3047-3308 3662-3781 4328-5057
HCWDO56	969	961273	AC062037	21847	1-101

HCWDP85	971	747141	AL354884	21848	1-240
HCWDP85	971	747141	AL354884	21849	1-456
HCWDR42	974	529354	AC022517	21850	1-677
HCWDR42	974	529354	AC021618	21851	1-677
HCWDR42	974	529354	AC022517	21852	1-421
HCWDR42	974	529354	AC022517	21853	1-628
HCWDR42	974	529354	AC021618	21854	1-816
HCWDR42	974	529354	AC021618	21855	1-421
HCWDS26	980	684696	AC013472	21856	1-593
HCWDS26	980	684696	AC013472	21857	1-100
HCWDS52	984	771881	AL163542	21858	1-383
HCWDS52	984	771881	AL163542	21859	1-259
HCWDS52	984	771881	AL163542	21860	1-301
HCWDS59	986	934914	AC016095	21861	1-657
HCWDS94	990	959650	AC005940	21862	1-116 475-768
HCWDT12	991	573487	AL035669	21863	1-111 865-1191 1302-1841 3279-4268 4293-5890 6336-7875 7899-8471 8661-9047 13609-14294 14494-14913 15696-16130 16339-16472 16691-17843 17938-18512 18813-18899 19731-19879 20325-21501 21631-22581 22644-22976 22985-23674 26596-27241 27688-27816 27920-27955 28635-28915 28964-29715 29994-30626
HCWDT12	991	573487	AL035669	21864	1-280
HCWDV82	994	529210	AL132712	21865	1-138
HCWDW05	995	852997	AC025151	21866	1-193
HCWDW05	995	852997	AC025375	21867	1-193
HCWDW05	995	852997	AC025375	21868	1-169
HCWDW05	995	852997	AC025151	21869	1-169
HCWDW08	996	861936	AC011625	21870	1-560
HCWDW08	996	861936	AC011625	21871	1-529
HCWDW29	999	849939	AC023910	21872	1-302
HCWDW33	1000	573554	AC013250	21873	1-954
HCWDW42	1001	462405	AC008610	21874	1-921 1736-2565 4086-4258
HCWDW43	1002	714423	AL390955	21875	1-354

HCWDW43	1002	714423	AL356439	21876	1-354
HCWDW57	1003	927656	AL161458	21877	1-320
HCWDW57	1003	927656	AL353691	21878	1-320
HCWDW57	1003	927656	AL161458	21879	1-657
HCWDW57	1003	927656	AL161458	21880	1-180
HCWDW57	1003	927656	AL353691	21881	1-180
HCWDW61	1004	574859	AC004961	21882	1-105 732-832 3958-4228 4313-4583
HCWDW61	1004	574859	AC004961	21883	1-459 1154-1471 2655-2798 2982-3288 3469-3913 4609-4775 5902-6207 6709-7261 10133-12523 13136-13290 13327-13532 14060-14415 15330-15958 20773-21333 24655-24799 28583-28995 29856-30019 31963-32453 33826-33923
HCWDW62	1005	849960	AC011234	21884	1-553
HCWDW62	1005	849960	AC011234	21885	1-232
HCWDW73	1006	861934	AC021291	21886	1-387
HCWDW73	1006	861934	AC074331	21887	1-387
HCWDW73	1006	861934	AC074331	21888	1-43 55-147 487-713 2216-2346 3245-3599 4463-4529 4767-4997 5300-5761 6981-7352 7443-7654 7751-8526 9253-10278 10397-11424 11500-12586
HCWDW94	1011	753166	AC032007	21889	1-1104
HCWDX36	1015	861932	AC020780	21890	1-862 2753-4007
HCWDX36	1015	861932	AC011426	21891	1-566
HCWDX36	1015	861932	AC011426	21892	1-492
HCWDX36	1015	861932	AC011426	21893	1-862
HCWDX52	1017	661568	AP001780	21894	1-906
HCWDX52	1017	661568	AC036186	21895	1-905
HCWDX52	1017	661568	AP001780	21896	1-565
HCWDX52	1017	661568	AC036186	21897	1-114

HCWDX52	1017	661568	AC036186	21898	1-565
HCWDX65	1018	920877	AL031296	21899	1-493
HCWDX65	1018	920877	AL031296	21900	1-181
HCWDX65	1018	920877	AL031296	21901	1-152
HCWDX85	1020	861933	AC023782	21902	1-409
HCWDX85	1020	861933	AC023782	21903	1-151
HCWDZ13	1022	657398	AL353152	21904	1-401
HCWDZ89	1023	576697	AC009309	21905	1-66 74-225
HCWDZ89	1023	576697	AC009309	21906	1-106
HCWDZ89	1023	576697	AC009309	21907	1-272
HCWEA30	1024	681277	AC025278	21908	1-302 1090-1492 3950-4274
HCWEA65	1025	849918	AC009405	21909	1-382
HCWEA65	1025	849918	AC016818	21910	1-382
HCWEA65	1025	849918	AC009405	21911	1-201
HCWEA65	1025	849918	AC016818	21912	1-201
HCWEA77	1026	666180	AC008164	21913	1-396
HCWEA77	1026	666180	AC008164	21914	1-247
HCWEA77	1026	666180	AC008164	21915	1-364
HCWEA82	1028	719028	AC006026	21916	1-372
HCWEA82	1028	719028	AC006026	21917	1-281
HCWEA82	1028	719028	AC006026	21918	1-230
HCWEA86	1030	574858	AL353813	21919	1-362
HCWEA86	1030	574858	AC023067	21920	1-362
HCWEA86	1030	574858	AL161912	21921	1-362
HCWEB28	1033	932114	AL355675	21922	1-694
HCWEB28	1033	932114	AL109917	21923	1-694
HCWEB28	1033	932114	AL355675	21924	1-500 765-1367 1595-1719
HCWEB28	1033	932114	AL109917	21925	1-105
HCWEB71	1038	573147	AC068625	21926	1-431
HCWEB71	1038	573147	AC068625	21927	1-156
HCWEB71	1038	573147	AC068625	21928	1-268
HCWED11	1039	948689	AC020915	21929	1-441
HCWED11	1039	948689	AC010618	21930	1-317 521-822 1151-1591 2509-2907 3350-4067 4074-4749 4928-5223 5639-5744
HCWED11	1039	948689	AC010618	21931	1-107
HCWED13	1040	573413	AC023407	21932	1-461
HCWED13	1040	573413	AC021907	21933	1-461
HCWED13	1040	573413	AC025284	21934	1-461
HCWED61	1041	971865	AC022842	21935	1-97 166-478 1467-1528
HCWED61	1041	971865	AC055767	21936	1-1151 1251-1734 2170-2343 2419-2673

					2724-2789
HCWED61	1041	971865	AC055767	21937	1-364
HCWEE07	1044	953731	AC069434	21938	1-463
HCWEE07	1044	953731	AF230667	21939	1-463
HCWEE22	1045	572960	AL139282	21940	1-348
HCWEE22	1045	572960	AL354986	21941	1-349
HCWEE22	1045	572960	AL357500	21942	1-351
HCWEE22	1045	572960	AC025145	21943	1-349
HCWEE22	1045	572960	AC025145	21944	1-310
HCWEE74	1046	738264	AC027272	21945	1-472
HCWEE74	1046	738264	AC016586	21946	1-472
HCWEE74	1046	738264	AC027272	21947	1-148
HCWEE74	1046	738264	AC027272	21948	1-401
HCWEE74	1046	738264	AC016586	21949	1-399
HCWEE74	1046	738264	AC016586	21950	1-148
HCWEF95	1052	526766	AL138736	21951	1-1013
HCWEF95	1052	526766	AC012120	21952	1-1013
HCWEF95	1052	526766	AL138736	21953	1-285
HCWEF95	1052	526766	AL138736	21954	1-205
HCWEF95	1052	526766	AC012120	21955	1-285
HCWEG23	1054	531421	AC007674	21956	1-408
HCWEG31	1055	693687	AP000168	21957	1-408
HCWEG31	1055	693687	AP000053	21958	1-408
HCWEG31	1055	693687	AP000121	21959	1-408
HCWEG51	1057	964642	AC008167	21960	1-303
HCWEG51	1057	964642	AC004983	21961	1-303
HCWEG51	1057	964642	AC008167	21962	1-113
HCWEG70	1059	881254	AC015994	21963	1-1527
HCWEG70	1059	881254	AC015994	21964	1-405
HCWEG70	1059	881254	AC015994	21965	1-334
HCWEH27	1061	527050	AC023230	21966	1-940 1013-1157 1230-1679 1739-3513 3602-3782 3869-4022 4120-4274 4350-4663 4949-5092 5482-5550 5629-5742 5855-5932 6070-6130 6253-7016
HCWEH27	1061	527050	AC023230	21967	1-347
HCWEH27	1061	527050	AC023230	21968	1-1185 1190-2968 3139-3219 3401-3612 3680-4094
HCWEH94	1065	667919	AC026516	21969	1-128
HCWEH94	1065	667919	AC078873	21970	1-114
HCWEH94	1065	667919	AC012318	21971	1-147
HCWEH94	1065	667919	AC068682	21972	1-153
HCWEH94	1065	667919	AC055774	21973	1-109
HCWEH94	1065	667919	AC074121	21974	1-88

HCWEH94	1065	667919	AC011962	21975	1-102
HCWEH94	1065	667919	AC055884	21976	1-90
HCWEH94	1065	667919	AC004906	21977	1-60 442-1217 1321-2158 3261-3312 5686-5819 6719-6782
HCWEH94	1065	667919	AC055884	21978	1-430
HCWEH94	1065	667919	AC004906	21979	1-84 456-583 3605-3844 4629-4725 5286-5389 5831-5926 7835-7977 8285-8525 9103-9344 9748-9929 10636-11129 12931-13166 14845-15073 16371-18376
HCWEI30	1067	666625	AC010300	21980	1-273
HCWEI43	1068	573508	AL357079	21981	1-445
HCWEI43	1068	573508	AC005051	21982	1-445
HCWEI43	1068	573508	AC004950	21983	1-445
HCWEI45	1069	576852	AC022221	21984	1-1505
HCWEI78	1070	861918	AC010365	21985	1-289
HCWEI83	1072	529351	AC007957	21986	1-326
HCWEI83	1072	529351	AC007957	21987	1-104
HCWEI83	1072	529351	AC007957	21988	1-376
HCWEI91	1073	529650	AC012325	21989	1-550
HCWEJ26	1077	576717	AC068617	21990	1-548
HCWEJ26	1077	576717	AL121834	21991	1-623
HCWEJ26	1077	576717	AC074296	21992	1-621
HCWEJ26	1077	576717	AL121834	21993	1-572
HCWEJ26	1077	576717	AL121834	21994	1-218
HCWEJ26	1077	576717	AC074296	21995	1-141
HCWEJ26	1077	576717	AC074296	21996	1-572
HCWEJ69	1079	757674	AP000937	21997	1-37 1494-1570 2152-4007 4318-4452 5221-5719 7271-7537 12324-12603 12657-12738 13443-13589 14476-14518
HCWEJ69	1079	757674	AC007941	21998	1-37 1494-1570 2152-2815 2890-4007 4318-4452 5221-5719 7271-7537

					12324-12603
					12657-12738
					13443-13589
					14476-14518
HCWEJ69	1079	757674	AC015566	21999	1-37
					1494-1570
					2152-2815
					2890-4008
					4319-4453
					5222-5720
					7272-7538
					12325-12604
					12658-12739
					13444-13590
					14477-14519
HCWEJ69	1079	757674	AC007941	22000	1-214
HCWEJ69	1079	757674	AC015566	22001	1-214
HCWEK74	1082	573134	AC007685	22002	1-562
HCWEK74	1082	573134	AC007685	22003	1-528
HCWEK80	1083	574157	AP001053	22004	1-439
HCWEK80	1083	574157	AP001052	22005	1-439
HCWEK80	1083	574157	AP001053	22006	1-240
HCWEK80	1083	574157	AP001052	22007	1-240
HCWEK84	1084	572843	AL353695	22008	1-300
HCWEK84	1084	572843	AC011156	22009	1-300
HCWEL27	1089	572846	AC005399	22010	1-459
HCWEL55	1092	572951	AL359260	22011	1-98
					514-856
					1073-1766
					2023-2133
					3183-3274
HCWEL55	1092	572951	AL359260	22012	1-154
HCWEM10	1094	968044	AC023958	22013	1-314
HCWEM10	1094	968044	AL163032	22014	1-359
HCWEM10	1094	968044	AC023958	22015	1-880
HCWEM10	1094	968044	AL163032	22016	1-880
HCWEP18	1099	913670	AC046176	22017	1-410
HCWEP18	1099	913670	AC046176	22018	1-725
HCWEP43	1103	921346	AL161611	22019	1-414
HCWEP43	1103	921346	AL160257	22020	1-414
HCWEQ14	1105	908245	AC002985	22021	1-176
					897-1472
					1978-2508
					2643-2839
					2922-3063
					4548-4626
					4937-5018
					5191-5296
					5557-5963
					6618-6695
					6744-7267
					8084-8172
					8283-8355
					8441-8948
HCWEQ14	1105	908245	AC002985	22022	1-148
HCWEQ14	1105	908245	AC002985	22023	1-586

					630-757
					905-970
					975-1065
					1655-1799
					2124-2213
					2311-2426
					2773-2933
					3725-3847
					4522-4664
					5101-5212
					6590-6691
					7516-7705
					7715-7816
					8298-8424
					9153-9695
					9768-9851
					11121-11152
					11850-12026
HCWEQ15	1106	660520	AC025384	22024	1-216
HCWEQ15	1106	660520	AC046171	22025	1-220
HCWEQ15	1106	660520	AF015723	22026	1-314
HCWEQ37	1108	849985	AL122034	22027	1-309
HCWEQ89	1109	529240	AC061706	22028	1-604
					766-1281
					1371-1483
					2143-2741
HCWEQ89	1109	529240	AC027445	22029	1-604
					766-1281
					1371-1483
					2143-2741
HCWEQ89	1109	529240	AC027445	22030	1-495
					835-1977
HCWEQ89	1109	529240	AC061706	22031	1-495
					835-1977
HCWER81	1113	574167	AC073241	22032	1-748
HCWES03	1114	921933	AP000763	22033	1-1386
HCWES03	1114	921933	AP000763	22034	1-414
HCWES03	1114	921933	AP000763	22035	1-433
HCWES06	1115	935862	AC011676	22036	1-143
HCWES06	1115	935862	AC011676	22037	1-105
HCWEW76	1117	861966	AC025804	22038	1-430
HCWEW76	1117	861966	AL121574	22039	1-786
HCWEW76	1117	861966	AC025804	22040	1-211
HCWEW76	1117	861966	AL121574	22041	1-160
HCWEW76	1117	861966	AL121574	22042	1-211
HCWEW77	1118	664922	AC026053	22043	1-654
HCWEW77	1118	664922	AC022262	22044	1-797
					2417-2631
					3781-3997
					5774-5862
					5864-6192
					14342-14714
					15388-15925
					17245-17496
					17801-18454
					20879-21165
					21765-22481

					23649-24248 25816-25983 27115-27246 28306-28431 33092-33393 33904-34036 34043-34295 35283-35905 36805-36930 37389-37735 38208-38351 39019-39139 39211-39353
HCWEW77	1118	664922	AL020995	22045	1-797 2417-2632 3782-3998 5774-5862 5879-6191 14346-14718 15392-15929 17249-17500 17805-18458 20882-21168 21768-22484 23652-24251 25819-25986 27118-27249 28309-28434 33096-33397 33908-34040 34047-34299 35287-35909 36809-36934 37393-37739 38212-38355 39024-39144 39216-39358
HCWEW77	1118	664922	AC026053	22046	1-252
HCWEW77	1118	664922	AC022262	22047	1-124
HCWEW77	1118	664922	AC022262	22048	1-756
HCWEW77	1118	664922	AL020995	22049	1-124
HCWEW77	1118	664922	AL020995	22050	1-756
HCWEX40	1120	574940	AC008649	22051	1-285 306-382 720-1139 1793-2375 2870-2962 3179-3563 5665-5743 5807-5907 6432-7120 7203-7313 7859-7930 8015-8104 8314-8379 8686-8861 9409-9512

					9701-9757
					9859-9971
					12300-12359
					12451-12528
					13815-13898
					16274-16373
					16872-17183
					17782-17865
					17942-18104
					18128-18592
					20238-20288
					20363-20407
					20485-20543
					21969-22048
					22283-22399
					22926-23507
					23618-23679
					24690-24792
					24985-25115
					25117-25293
					26253-26327
					26418-26461
					26620-26665
					26763-26819
					28569-28631
					29121-29382
					29726-29819
					29943-29998
					30170-30393
HCWEX40	1120	574940	AC008649	22052	1-355
HCWEX40	1120	574940	AC008649	22053	1-59
					887-957
					1045-1150
					1484-1534
					2280-2522
HCWEX59	1121	709560	AL360177	22054	1-422
HCWEX59	1121	709560	AC026046	22055	1-422
HCWEX66	1122	731772	AC021617	22056	1-306
HCWEX66	1122	731772	AC012466	22057	1-306
HCWEX66	1122	731772	AC069254	22058	1-328
HCWEX66	1122	731772	AC012466	22059	1-88
HCWEX66	1122	731772	AC069254	22060	1-195
HCWEX66	1122	731772	AC021617	22061	1-88
HCWEX66	1122	731772	AC012466	22062	1-195
HCWEX66	1122	731772	AC069254	22063	1-88
HCWEY84	1126	952692	AC022270	22064	1-552
HCWEY84	1126	952692	AC022270	22065	1-111
HCWEY88	1127	785508	AC040901	22066	1-363
HCWFA14	1128	925301	AL157935	22067	1-928
					2503-3148
					3150-3465
					3744-3769
HCWFA88	1130	578943	AP000126	22068	1-437
HCWFA88	1130	578943	AP000204	22069	1-437
HCWFA88	1130	578943	AP000244	22070	1-437
HCWFA88	1130	578943	AP000126	22071	1-218
HCWFA88	1130	578943	AP000204	22072	1-218

HCWFA88	1130	578943	AP000244	22073	1-218
HCWFA89	1131	574370	AC009125	22074	1-268
HCWFA89	1131	574370	AC019092	22075	1-268
HCWFA89	1131	574370	AC069176	22076	1-251
HCWFA89	1131	574370	AC023463	22077	1-251
HCWFA89	1131	574370	AC022030	22078	1-268
HCWFA89	1131	574370	AC009018	22079	1-268
HCWFA89	1131	574370	AC025279	22080	1-251
HCWFA89	1131	574370	AC017077	22081	1-250
HCWFA89	1131	574370	AP001120	22082	1-878
HCWFA89	1131	574370	AF001549	22083	1-43 773-1624 1688-1950 2889-3608
HCWFA89	1131	574370	AC005136	22084	1-416
HCWFA89	1131	574370	AC023814	22085	1-251
HCWFA89	1131	574370	AC009053	22086	1-886
HCWFA89	1131	574370	AC012645	22087	1-329
HCWFA89	1131	574370	AC009022	22088	1-268
HCWFA89	1131	574370	AC009124	22089	1-251
HCWFA89	1131	574370	AC008956	22090	1-329
HCWFA89	1131	574370	AC026468	22091	1-268
HCWFA89	1131	574370	AC008864	22092	1-251
HCWFA89	1131	574370	AC009153	22093	1-886
HCWFA89	1131	574370	AC008740	22094	1-167 1841-1957 3372-3551 4869-4992 5466-5717 5843-6191 7293-7774 8896-9272 9583-9836 9840-10644 13160-13283 13744-14475 14520-14636 15266-15361 15900-16312 16532-16643 16921-17097 17536-17989 18208-18629 19399-19659 20067-20688 21802-22114 22172-22422 22510-23142 23222-33147
HCWFA89	1131	574370	AC002039	22095	1-1218 1220-1916 1937-3713 3725-3793 3834-5438 5906-6789 6891-7224 7389-7998

					9080-9743
					9880-10603
					11304-13014
					14185-14384
					15014-15725
					16161-16766
					16926-18485
					18494-18864
					18930-19044
					19046-19377
					19774-20053
					21220-21318
					21940-22031
					22039-22197
					22323-22643
					28500-28790
					29735-30291
					30336-30764
					32404-33053
					35852-36141
					36690-37098
					38177-38534
					40101-40414
					41275-41645
					41666-42091
					42241-42575
					43229-47148
					47179-48851
					49078-49311
					49397-49740
					49882-49986
					51160-51603
					51635-51799
					52134-52375
					53063-55275
					55660-56161
					56338-56640
					56665-56903
					57599-57830
					57851-58910
					59342-60401
					60456-60864
					60897-61676
					61775-62191
					62271-62487
					62571-62727
					62739-62985
					63402-64464
					64477-64674
					64798-65056
					65231-65390
					65493-65608
					65684-66305
					66788-66933
					67693-68029
					68077-68356
HCWFA89	1131	574370	AC002544	22096	1-329

HCWFA89	1131	574370	AC020757	22097	1-879
HCWFA89	1131	574370	AC002045	22098	1-878
HCWFA89	1131	574370	U91326	22099	1-876
HCWFA89	1131	574370	AC009060	22100	1-268
HCWFA89	1131	574370	AC025279	22101	1-632 714-7858
HCWFA89	1131	574370	AC017077	22102	1-269
HCWFA89	1131	574370	AP001120	22103	1-681
HCWFA89	1131	574370	AC019092	22104	1-184
HCWFA89	1131	574370	AF001549	22105	1-533 614-9917 10060-11174 11180-11605 11793-12406 12614-12777 13147-13353 13470-15636 15807-16384 16535-17573 17705-17941 18061-18339 18482-20124 20370-20806 20812-23232 23388-23675 23810-28113 28132-31405
HCWFA89	1131	574370	AC025279	22106	1-699
HCWFA89	1131	574370	AC005136	22107	1-294
HCWFA89	1131	574370	AP001120	22108	1-1087
HCWFA89	1131	574370	AC023814	22109	1-10162 10303-10536 10549-11853
HCWFA89	1131	574370	AC005136	22110	1-232
HCWFA89	1131	574370	AC023814	22111	1-546
HCWFA89	1131	574370	AC009053	22112	1-106
HCWFA89	1131	574370	AC012645	22113	1-302
HCWFA89	1131	574370	AC009022	22114	1-104
HCWFA89	1131	574370	AC009124	22115	1-313
HCWFA89	1131	574370	AC012645	22116	1-633 826-10497
HCWFA89	1131	574370	AC008956	22117	1-455
HCWFA89	1131	574370	AC026468	22118	1-104
HCWFA89	1131	574370	AC008864	22119	1-313
HCWFA89	1131	574370	AC009022	22120	1-533
HCWFA89	1131	574370	AC009153	22121	1-292
HCWFA89	1131	574370	AC009124	22122	1-8331
HCWFA89	1131	574370	AC008956	22123	1-106
HCWFA89	1131	574370	AC026468	22124	1-532
HCWFA89	1131	574370	AC008864	22125	1-9439
HCWFA89	1131	574370	AC002039	22126	1-216 309-591 719-949
HCWFA89	1131	574370	AC002039	22127	1-1122
HCWFA89	1131	574370	AC002544	22128	1-293
HCWFA89	1131	574370	AC020757	22129	1-294

HCWFA89	1131	574370	AC002544	22130	1-530
HCWFA89	1131	574370	AC002045	22131	1-827
HCWFA89	1131	574370	AC020757	22132	1-102
HCWFA89	1131	574370	AC002045	22133	1-102
HCWFA89	1131	574370	U91326	22134	1-102
HCWFA89	1131	574370	AC009060	22135	1-293
HCWFA89	1131	574370	AC009060	22136	1-522
HCWFC05	1132	932194	AC021320	22137	1-44 2986-3406 4053-5193 5391-5502 5522-7144 7153-7457 7760-8125 8258-8290
HCWFC05	1132	932194	AC018510	22138	1-1141 1339-1450 1470-3093 3102-3406 3709-4074 4207-4239
HCWFC05	1132	932194	AC018510	22139	1-421
HCWFC17	1133	573186	AC024428	22140	1-940 2969-3173
HCWFC17	1133	573186	AC024428	22141	1-806 1254-1700 1751-2511
HCWFD47	1138	671946	AC007163	22142	1-176 337-439 1654-1726 3786-3966 4113-4210 4770-4837 5551-5697 5859-6531 6669-6858 7202-7348 8009-8293 8408-8963 8997-9487 9618-9752 10513-12468
HCWFD47	1138	671946	AC007163	22143	1-293
HCWFD47	1138	671946	AC007163	22144	1-575
HCWFD64	1139	954575	AC026130	22145	1-341
HCWFD64	1139	954575	AC025518	22146	1-341
HCWFD64	1139	954575	AC026130	22147	1-445
HCWFD64	1139	954575	AC025518	22148	1-445
HCWFE06	1140	935856	AL161430	22149	1-526
HCWFE06	1140	935856	AL161430	22150	1-414
HCWFF88	1143	506577	AC025670	22151	1-300
HCWFF88	1143	506577	AL157951	22152	1-624
HCWFF88	1143	506577	AL157951	22153	1-409
HCWFF88	1143	506577	AL157951	22154	1-83
HCWFK35	1148	916795	AC007952	22155	1-513
HCWFK35	1148	916795	AC007952	22156	1-517

HCWFK35	1148	916795	AC003957	22157	1-517
HCWFK35	1148	916795	AC007952	22158	1-243
HCWFK35	1148	916795	AC007952	22159	1-452
HCWFK35	1148	916795	AC003957	22160	1-243
HCWFK35	1148	916795	AC007952	22161	1-243
HCWFK35	1148	916795	AC003957	22162	1-453
HCWFK73	1150	761655	AC012107	22163	1-127
HCWFK73	1150	761655	AC012107	22164	1-133
HCWFK73	1150	761655	AC012107	22165	1-113
HCWFK91	1151	954008	AC012634	22166	1-361
HCWFK91	1151	954008	AC012634	22167	1-109
HCWFK91	1151	954008	AC012634	22168	1-275
HCWFL10	1152	964853	AL031673	22169	1-421
HCWFL10	1152	964853	AL031673	22170	1-497
HCWFL10	1152	964853	AL031673	22171	1-847
HCWFL45	1154	577950	AL135794	22172	1-345
HCWFL45	1154	577950	AL135794	22173	1-567
HCWFL86	1156	523359	AC032015	22174	1-1017
HCWFL94	1157	575522	AC010646	22175	1-233
HCWFL94	1157	575522	AC036168	22176	1-217
HCWFL94	1157	575522	AC026491	22177	1-439 1239-1395 1783-2779 2956-3540 3650-3772 3781-4106 6023-6283 6363-7024 7557-7711 10937-11233 12728-12870 13214-13362 13714-15432 16010-16106
HCWFL94	1157	575522	AP001526	22178	1-226
HCWFL94	1157	575522	AC011263	22179	1-110
HCWFL94	1157	575522	AC022563	22180	1-165
HCWFL94	1157	575522	AC026491	22181	1-299
HCWFM43	1162	715387	AL390861	22182	1-180
HCWFM43	1162	715387	AL354734	22183	1-119 818-942 2853-3172 4467-4871 5036-5441 5894-5928 6546-6612 7514-7693 10233-10292 12806-12885 13460-13496
HCWFM43	1162	715387	AL354734	22184	1-118
HCWFM43	1162	715387	AL354734	22185	1-371
HCWFM59	1163	757660	AL355334	22186	1-361
HCWFM59	1163	757660	AL138767	22187	1-1381 2050-2522 4440-4997

					14458-14868 14924-15337 17709-18083 19255-19338 19868-20228 22966-23102 23239-25787 25816-26135 26153-26193 26195-27750 27788-27911 29939-30103 32291-32607 35221-35498 35912-36650 37543-37644 40237-40341 44908-45129 47910-48727
HCWFM59	1163	757660	AL138767	22188	1-439
HCWFM60	1164	740470	AC010894	22189	1-442
HCWFM60	1164	740470	AC010894	22190	1-367
HCWFM65	1165	849957	AC026266	22191	1-423
HCWFM65	1165	849957	AL135818	22192	1-420
HCWFM65	1165	849957	AL135818	22193	1-126
HCWFM65	1165	849957	AL135818	22194	1-269
HCWFN14	1167	680404	AL160054	22195	1-1003 1102-1368 1796-2112 2452-2728 3299-4438 5102-5517
HCWFN14	1167	680404	AL160054	22196	1-521 606-992 1040-1880
HCWFN14	1167	680404	AL160054	22197	1-604
HCWFN22	1168	674750	AC009726	22198	1-336
HCWFN22	1168	674750	AC009726	22199	1-391
HCWFN37	1169	576547	AC012385	22200	1-280
HCWFN37	1169	576547	AC026491	22201	1-283 308-501 972-1445 5875-6177 10800-11079 13849-14230 14451-14925
HCWFN37	1169	576547	AC012518	22202	1-280
HCWFN37	1169	576547	AC026491	22203	1-508
HCWFN37	1169	576547	AC026491	22204	1-393
HCWFO01	1170	916814	AC026113	22205	1-310
HCWFO01	1170	916814	AC063949	22206	1-310
HCWFO01	1170	916814	AC026113	22207	1-532 1297-1552
HCWFO01	1170	916814	AC063949	22208	1-532 1297-1552
HCWFO02	1171	920416	AC023194	22209	1-394
HCWFO24	1173	664581	AC023380	22210	1-418

HCWFO24	1173	664581	AC023380	22211	1-418
HCWFP71	1180	933211	AC011880	22212	1-349
HCWFP71	1180	933211	AC011880	22213	1-236
HCWFP81	1181	576363	AC023437	22214	1-321
HCWFP81	1181	576363	AC069262	22215	1-320
HCWFR11	1182	967266	AC010336	22216	1-1217 1582-2056 2618-2742 4764-5069
HCWFR11	1182	967266	AC010336	22217	1-230
HCWFR11	1182	967266	AC010336	22218	1-197 805-1100 3103-3199 4973-5292 5605-5734
HCWFR83	1183	721373	AC022214	22219	1-459
HCWFR83	1183	721373	AC022214	22220	1-632 776-1002
HCWFS22	1184	971566	AC016427	22221	1-142 334-406 1091-1265 1551-1900 2735-2872 4235-4670
HCWFS22	1184	971566	AL161452	22222	1-142 334-406 1091-1265 1551-1900 2735-2872 4235-4670
HCWFS22	1184	971566	AC016427	22223	1-432
HCWFS22	1184	971566	AC016427	22224	1-649
HCWFS22	1184	971566	AL161452	22225	1-432
HCWFS22	1184	971566	AL161452	22226	1-649
HCWFT33	1187	959471	AC011471	22227	1-268
HCWFT33	1187	959471	AC011471	22228	1-554
HCWFT77	1189	739571	AC004492	22229	1-1071
HCWFT77	1189	739571	AC004492	22230	1-578
HCWFT77	1189	739571	AC004492	22231	1-975
HCWFT84	1190	542236	AC013396	22232	1-396
HCWFT84	1190	542236	AC013396	22233	1-466
HCWFU03	1191	921944	AL135818	22234	1-1001
HCWFU03	1191	921944	AL135818	22235	1-214
HCWFU32	1194	716340	AC025040	22236	1-490
HCWFU76	1197	576839	AC005538	22237	1-332
HCWFU76	1197	576839	AC005538	22238	1-425 550-1275 6679-6809 6817-6933 21283-21383 35451-35518 38292-38375 38927-39277 45560-45723 46202-46957 48209-48361

					48764-48876
					51816-51968
					53821-53945
					54006-54093
					55196-55235
HCWFU83	1198	574864	AL031295	22239	1-525
HCWFU83	1198	574864	AL031295	22240	1-225
HCWFU83	1198	574864	AL031295	22241	1-1379
					1815-1935
					2459-2563
					2718-2820
					2925-3046
					3700-4004
					5870-6191
					6760-7040
					7984-8882
					9525-9840
HCWFV25	1201	733993	AC008497	22242	1-865
HCWFV25	1201	733993	AC004749	22243	1-865
HCWFV25	1201	733993	AC008497	22244	1-779
HCWFV25	1201	733993	AC008497	22245	1-1012
HCWFV25	1201	733993	AC004749	22246	1-4838
HCWFV25	1201	733993	AC004749	22247	1-776
HCWFV32	1202	960099	AF001550	22248	1-404
HCWFV34	1203	577896	AC021494	22249	1-468
HCWFV34	1203	577896	AC005244	22250	1-468
HCWFV34	1203	577896	AC021494	22251	1-287
HCWFV34	1203	577896	AC005244	22252	1-293
HCWFV69	1206	527087	AC004007	22253	1-619
HCWFV69	1206	527087	AC004007	22254	1-321
HCWFV69	1206	527087	AC004007	22255	1-238
HCWFX23	1208	675902	AC025321	22256	1-307
HCWFZ56	1212	733414	AL160291	22257	1-221
HCWFZ56	1212	733414	AL160291	22258	1-152
HCWGA27	1213	861968	AL354795	22259	1-748
HCWGC02	1218	917348	AC021291	22260	1-520
HCWGC02	1218	917348	AC074331	22261	1-520
HCWGC02	1218	917348	AC021291	22262	1-544
HCWGC02	1218	917348	AC074331	22263	1-544
HCWGD33	1221	849909	AP000759	22264	1-314
HCWGD33	1221	849909	AP000822	22265	1-314
HCWGD33	1221	849909	AC069080	22266	1-314
HCWGD33	1221	849909	AP000759	22267	1-445
HCWGD33	1221	849909	AP000759	22268	1-302
HCWGD33	1221	849909	AP000822	22269	1-302
HCWGD33	1221	849909	AP000822	22270	1-447
HCWGD33	1221	849909	AC069080	22271	1-442
HCWGD33	1221	849909	AC069080	22272	1-302
HCWGD66	1222	496411	AC008803	22273	1-361
HCWGD66	1222	496411	AC022423	22274	1-2424
					2437-2913
					3913-4331
					4438-4734
					6062-6179
					8894-9130
					9632-9706

					10432-10781 10792-11114 11517-11984 12170-12569 14349-14709 20546-20612 21121-24268
HCWGD66	1222	496411	AC022444	22275	1-361
HCWGD66	1222	496411	AC008803	22276	1-400
HCWGD66	1222	496411	AC022423	22277	1-590
HCWGD66	1222	496411	AC022444	22278	1-400
HCWGD66	1222	496411	AC022423	22279	1-96 113-270
HCWGE12	1223	967067	AC020731	22280	1-471
HCWGE22	1224	727967	AC013489	22281	1-320
HCWGE22	1224	727967	AC013489	22282	1-140
HCWGE23	1225	853004	AL137020	22283	1-459
HCWGE23	1225	853004	AL359254	22284	1-459
HCWGE23	1225	853004	AL359254	22285	1-336 1270-1631 2558-2862 3808-4027
HCWGE23	1225	853004	AL137020	22286	1-292
HCWGE47	1228	925105	AL133274	22287	1-439
HCWGE53	1229	728249	AL390716	22288	1-345
HCWGE53	1229	728249	AL390716	22289	1-391
HCWGE65	1230	720349	AL358613	22290	1-398
HCWGE65	1230	720349	AL157705	22291	1-398
HCWGE65	1230	720349	AL358613	22292	1-429
HCWGE65	1230	720349	AL157705	22293	1-429
HCWGE92	1233	792722	AC022735	22294	1-131 4273-4835 5016-5420 5633-6068
HCWGE92	1233	792722	AC022735	22295	1-273
HCWGF06	1234	935492	AL353712	22296	1-1301 1371-1905 2007-2247 2876-3421 3563-3870 4129-4195 4665-5217 5366-5794 6663-6806 7372-7496 7791-7976 8511-9026 9083-9386 9679-10382
HCWGF06	1234	935492	AL158169	22297	1-1301 1371-1905 2007-2247 2876-3421 3563-3870 4129-4195 4665-5217 5366-5794

597

					6663-6809 7372-7496 7791-7976 8511-9026 9083-9386 9679-10403 10598-10821 10845-10932 14296-14883 17247-17519 18330-18558 19145-19191
HCWGF06	1234	935492	AL353712	22298	1-224
HCWGF06	1234	935492	AL158169	22299	1-386
HCWGF71	1235	960089	AC007456	22300	1-442
HCWGF71	1235	960089	AC008055	22301	1-442
HCWGF75	1237	682351	AC021102	22302	1-304
HCWGF75	1237	682351	AC021102	22303	1-322
HCWGF76	1238	752789	AC025408	22304	1-747
HCWGF76	1238	752789	AC011130	22305	1-747
HCWGF76	1238	752789	AC027663	22306	1-747
HCWGF76	1238	752789	AC025408	22307	1-334
HCWGF76	1238	752789	AC011130	22308	1-334
HCWGF76	1238	752789	AC027663	22309	1-334
HCWGF91	1239	754244	AC026189	22310	1-148
HCWGF91	1239	754244	AC016146	22311	1-252
HCWGF91	1239	754244	AC023480	22312	1-252
HCWGF91	1239	754244	AC018503	22313	1-253
HCWGF91	1239	754244	AC016146	22314	1-563
HCWGF91	1239	754244	AC023480	22315	1-134
HCWGF91	1239	754244	AC018503	22316	1-382
HCWGF92	1240	861865	AC015809	22317	1-609
HCWGF92	1240	861865	AC015809	22318	1-503
HCWGF92	1240	861865	AC022403	22319	1-1140
HCWGF92	1240	861865	AC022403	22320	1-408
HCWGF92	1240	861865	AC022403	22321	1-373
HCWGQ07	1241	849889	AC068954	22322	1-391
HCWGQ39	1242	849891	AC021515	22323	1-748
HCWGQ39	1242	849891	AC021515	22324	1-126
HCWGQ80	1245	529242	AL137787	22325	1-167
HCWGQ84	1246	853106	AC010687	22326	1-1367
HCWGQ84	1246	853106	AC010687	22327	1-464
HCWGR34	1247	923577	AC022616	22328	1-371
HCWGR43	1248	734888	AP000744	22329	1-555
HCWGR47	1249	719518	AC007684	22330	1-245
HCWGR47	1249	719518	AC007684	22331	1-1126
HCWGR69	1251	849946	AC004234	22332	1-245
HCWGR69	1251	849946	AC023415	22333	1-310
HCWGR69	1251	849946	AC016524	22334	1-296
HCWGR69	1251	849946	AC055735	22335	1-143
HCWGR69	1251	849946	AC009088	22336	1-286 1767-1898 3233-3471
HCWGR69	1251	849946	AC013486	22337	1-465
HCWGR69	1251	849946	AC040979	22338	1-170
HCWGR69	1251	849946	AC018604	22339	1-298

HCWGR76	1252	778293	AC010736	22340	1-357
HCWGR76	1252	778293	AC010736	22341	1-553
HCWGR76	1252	778293	AC010736	22342	1-195
HCWGR88	1253	736056	AC068389	22343	1-208
HCWGR88	1253	736056	AC068389	22344	1-847
HCWGU11	1257	967064	AC026970	22345	1-638
HCWGU11	1257	967064	AC053528	22346	1-568 1921-2585
HCWGU11	1257	967064	AL158219	22347	1-568 1901-2567
HCWGU11	1257	967064	AL137863	22348	1-568 1901-2567
HCWGU57	1259	705637	AC069547	22349	1-498
HCWGU86	1260	666943	AC009130	22350	1-314
HCWGU86	1260	666943	AC009093	22351	1-314
HCWGU86	1260	666943	AC007615	22352	1-314
HCWGU86	1260	666943	AC009130	22353	1-248
HCWGU86	1260	666943	AC009093	22354	1-403
HCWGU86	1260	666943	AC007615	22355	1-402
HCWGW13	1263	849911	AL160174	22356	1-408
HCWGW13	1263	849911	AL157897	22357	1-408
HCWGW32	1264	615553	AP001270	22358	1-381 719-1175 1639-1935
HCWGW32	1264	615553	AP001270	22359	1-290
HCWGW85	1267	556369	AC024118	22360	1-536
HCWGW85	1267	556369	AL355384	22361	1-536
HCWGX41	1272	849887	AC004033	22362	1-391
HCWGX41	1272	849887	AC005500	22363	1-391
HCWGX41	1272	849887	AC007731	22364	1-391
HCWGX41	1272	849887	AC004033	22365	1-300
HCWGX41	1272	849887	AC004033	22366	1-446
HCWGX41	1272	849887	AC005500	22367	1-300
HCWGX41	1272	849887	AC007731	22368	1-300
HCWGX41	1272	849887	AC005500	22369	1-446
HCWGX41	1272	849887	AC007731	22370	1-446
HCWGX58	1273	920693	AC055807	22371	1-718
HCWGX58	1273	920693	AC055807	22372	1-492
HCWGX68	1274	733413	AL138794	22373	1-129
HCWGX68	1274	733413	AL138794	22374	1-260
HCWGX82	1275	924102	Z95115	22375	1-273
HCWGX82	1275	924102	Z95115	22376	1-693
HCWGX82	1275	924102	Z95115	22377	1-956 971-1547 1979-2186 4757-4958
HCWGX94	1276	793197	AP000669	22378	1-178
HCWGX94	1276	793197	AC022399	22379	1-383
HCWGX94	1276	793197	AP000669	22380	1-382
HCWGY12	1279	970693	AC023085	22381	1-458 484-1568 1656-2850 3659-4182 4458-5619
HCWGY12	1279	970693	AC023085	22382	1-153
HCWGY20	1280	669717	AC007224	22383	1-68

					544-1147 3115-3525 3788-4091 5053-5320 7017-7553 7719-8053 9313-9497 10297-10430 11988-12210 13329-15240 15824-16234 17381-17455 19419-19472 19913-20069 20167-20498 20735-20857 22688-23016 23558-23901 24284-24512
HCWGY20	1280	669717	AC007224	22384	1-624
HCWGY33	1281	702441	AL162505	22385	1-513
HCWGY33	1281	702441	AC023015	22386	1-513
HCWGY33	1281	702441	AC023015	22387	1-105
HCWGY43	1282	660568	AC063936	22388	1-1078 1380-2045
HCWGY43	1282	660568	AC063936	22389	1-439
HCWGY64	1283	670896	AL160060	22390	1-463
HCWGY64	1283	670896	AL157390	22391	1-463
HCWGY64	1283	670896	AL160060	22392	1-93 95-228
HCWGY64	1283	670896	AL160060	22393	1-103
HCWGY64	1283	670896	AL157390	22394	1-93 95-228
HCWGY64	1283	670896	AL157390	22395	1-103
HCWGY67	1284	861886	AC010531	22396	1-339 573-915 1603-1652 2328-2423
HCWGY67	1284	861886	AC010531	22397	1-451
HCWGY86	1287	711312	AC026068	22398	1-337
HCWHA03	1289	924189	AC006468	22399	1-965
HCWHA03	1289	924189	AC006468	22400	1-507
HCWHA03	1289	924189	AC006468	22401	1-103
HCWHA09	1290	968224	AP000589	22402	1-371
HCWHA09	1290	968224	AC003689	22403	1-371
HCWHA09	1290	968224	AP000589	22404	1-617
HCWHA09	1290	968224	AC003689	22405	1-617
HCWHA55	1292	731770	AC023241	22406	1-168
HCWHA55	1292	731770	AL352976	22407	1-168
HCWHA55	1292	731770	AC023241	22408	1-310
HCWHA55	1292	731770	AL352976	22409	1-328
HCWHA56	1293	733424	AP002403	22410	1-108
HCWHA56	1293	733424	AC013535	22411	1-106
HCWHA56	1293	733424	AL359996	22412	1-539
HCWHA56	1293	733424	AC015846	22413	1-126
HCWHA56	1293	733424	AL353793	22414	1-133

HCWHA56	1293	733424	AC004106	22415	1-854
HCWHA56	1293	733424	AC004106	22416	1-473
HCWHA56	1293	733424	AC004106	22417	1-1059
HCWHB32	1296	966508	AL122003	22418	1-419
HCWHB32	1296	966508	AL122003	22419	1-211
HCWHB65	1297	711437	AC019190	22420	1-434
HCWHB65	1297	711437	AC019190	22421	1-730
HCWHC01	1299	849886	Z83840	22422	1-1160
HCWHC50	1303	591202	AL356960	22423	1-509
HCWHC50	1303	591202	AL035414	22424	1-509
HCWHC50	1303	591202	AL356960	22425	1-169
HCWHC50	1303	591202	AL035414	22426	1-169
HCWHC59	1304	964852	AP001788	22427	1-545 554-1434
HCWHC59	1304	964852	AP001075	22428	1-545 554-1434
HCWHC59	1304	964852	AP001788	22429	1-107 665-1269 1553-1882 2689-2842 5424-5499
HCWHC59	1304	964852	AP001075	22430	1-605
HCWHC59	1304	964852	AP001788	22431	1-278
HCWHC59	1304	964852	AP001075	22432	1-290
HCWHD23	1307	934917	AC041008	22433	1-292
HCWHD23	1307	934917	AC016691	22434	1-292
HCWHD23	1307	934917	AC015719	22435	1-292
HCWHD23	1307	934917	AC015719	22436	1-496
HCWHF62	1309	582472	AC026468	22437	1-549 859-1153
HCWHF85	1310	746745	AL096701	22438	1-301
HCWHF85	1310	746745	AL096701	22439	1-1026
HCWHF85	1310	746745	AL096701	22440	1-88 149-252 1737-2764 3147-3525 3544-3645 5547-5740 5771-5861 6996-7449 7761-7937 9009-9418 9879-10194 10425-10559 11095-11277 11704-12355
HCWHJ15	1311	968379	AC009248	22441	1-137
HCWHJ15	1311	968379	AC009248	22442	1-428
HCWHJ15	1311	968379	AC009248	22443	1-236
HCWHJ25	1312	686712	AC012204	22444	1-365
HCWHJ25	1312	686712	AC024348	22445	1-376
HCWHJ48	1313	721816	AC008079	22446	1-866 939-1513 1524-5617 5645-6425 6437-6957

					6966-7117 9493-9973 11271-11666 14584-14691 15075-15212 15830-15883 15900-16347 16480-16774
HCWHJ48	1313	721816	AC008101	22447	1-575 587-4687 4715-5495 5507-6027 6036-6187 8563-9043 10340-10735 13653-13812 14144-14281 14899-14952 14969-15416 15549-15843
HCWHJ48	1313	721816	AC016830	22448	1-344
HCWHJ48	1313	721816	AC016027	22449	1-866 939-5617 5645-6425 6437-6957 6966-7117 9493-9973 10647-10747 11271-11666 14584-14691 15075-15212 15830-15883 15900-16347 16480-16774
HCWHJ48	1313	721816	AC008079	22450	1-287
HCWHJ48	1313	721816	AC008079	22451	1-297
HCWHJ48	1313	721816	AC008101	22452	1-287
HCWHJ48	1313	721816	AC008101	22453	1-802
HCWHJ48	1313	721816	AC016027	22454	1-287
HCWHJ48	1313	721816	AC016027	22455	1-304
HCWHJ53	1314	693313	AL049795	22456	1-135 2267-2358 2759-2859 3659-3775 4814-4946 5270-5730 6026-6474 6782-7341 7359-7475 7777-7939 8137-8247 8262-8548 8649-8729 9467-10551 10640-10701 11022-11356 11406-11450

					11517-11645 12002-12057 12580-12713 14863-15041 15151-15479 16120-21982
HCWHJ53	1314	693313	AL049795	22457	1-98
HCWHJ53	1314	693313	AL049795	22458	1-110
HCWHJ75	1316	786019	AC020742	22459	1-375
HCWHJ75	1316	786019	AC001234	22460	1-361
HCWHJ75	1316	786019	AC020742	22461	1-207
HCWHJ75	1316	786019	AC020742	22462	1-331
HCWHJ75	1316	786019	AC001234	22463	1-259
HCWHJ75	1316	786019	AC001234	22464	1-331
HCWHJ91	1317	674157	AC008977	22465	1-341
HCWHJ91	1317	674157	AC009954	22466	1-341
HCWHJ91	1317	674157	AC008977	22467	1-389
HCWHJ91	1317	674157	AC009954	22468	1-147
HCWHL42	1320	959894	AL355598	22469	1-786
HCWHL42	1320	959894	AC044815	22470	1-746 1575-2050 2508-3293 4818-5412 6081-6547 6748-6935 7843-8192 8425-8581 9095-9217 9266-9407 11036-11432 12081-12179 13701-13787 13976-16347
HCWHL42	1320	959894	AC026587	22471	1-746 1574-2049 2507-3292 4818-5412 6081-6547 6748-6935 7843-8192 8425-8581 9108-9217 9294-9360
HCWHL42	1320	959894	AL355598	22472	1-594 1263-1725 1930-2117 3025-3374 3607-3763 4290-4399 4476-4542
HCWHL73	1321	960097	AL359199	22473	1-297 1426-1974
HCWHL73	1321	960097	AC026576	22474	1-297 1426-2574
HCWHL73	1321	960097	AL359199	22475	1-395
HCWHL73	1321	960097	AC026576	22476	1-530
HCWHL73	1321	960097	AC026576	22477	1-395

HCWHN28	1324	529654	AC067752	22478	1-328
HCWHN28	1324	529654	AC067752	22479	1-102
HCWHO45	1326	717807	AL023585	22480	1-735
HCWHO45	1326	717807	AL023585	22481	1-401
HCWHO78	1327	960180	AL355390	22482	1-363
HCWHO93	1328	924109	AL121852	22483	1-884 1733-2105 2705-2801 3708-4182 4232-4276 6264-6710 6783-6824 7401-7438
HCWHO93	1328	924109	AL121852	22484	1-961
HCWHP06	1329	935483	AL121574	22485	1-588 1266-1816 3088-3313 3846-4286 4328-4954 5217-5990
HCWHP06	1329	935483	AL121574	22486	1-352
HCWHP06	1329	935483	AL121574	22487	1-539
HCWHP25	1330	881285	AC016405	22488	1-627
HCWHP25	1330	881285	AC016405	22489	1-611
HCWHP44	1332	705392	AC037448	22490	1-107
HCWHP44	1332	705392	AC037448	22491	1-651
HCWHP74	1334	598510	AC015765	22492	1-436
HCWHP74	1334	598510	AC015765	22493	1-279
HCWHP74	1334	598510	AC015765	22494	1-1146
HCWHP84	1335	849900	AC012014	22495	1-407
HCWHP84	1335	849900	AC012014	22496	1-361
HCWHQ82	1338	677186	AC026102	22497	1-580
HCWHQ82	1338	677186	AC024185	22498	1-578
HCWHQ82	1338	677186	AC069521	22499	1-87 2725-2998 3055-3632 3817-4487 5495-5580 6797-7163
HCWHQ82	1338	677186	AC024185	22500	1-274
HCWHQ82	1338	677186	AC069521	22501	1-188
HCWHQ82	1338	677186	AC026102	22502	1-270
HCWHQ82	1338	677186	AC024185	22503	1-672 1681-1766 2983-3349
HCWHR01	1339	916526	AC027617	22504	1-309
HCWHR01	1339	916526	AC027617	22505	1-364
HCWHS13	1344	657230	AC026483	22506	1-137
HCWHS13	1344	657230	AC027442	22507	1-307
HCWHS13	1344	657230	AC025388	22508	1-296
HCWHS13	1344	657230	AC023008	22509	1-296
HCWHS13	1344	657230	AC027414	22510	1-270
HCWHS13	1344	657230	AC068701	22511	1-277 821-1381 2045-2272 3743-3879

					4305-4469 5016-5125
HCWHS13	1344	657230	AL355975	22512	1-322
HCWHS13	1344	657230	AC018445	22513	1-140
HCWHS13	1344	657230	AC021162	22514	1-308
HCWHS13	1344	657230	AC022795	22515	1-300
HCWHS13	1344	657230	AC027105	22516	1-308
HCWHS13	1344	657230	AC055119	22517	1-320
HCWHS13	1344	657230	AC055861	22518	1-281
HCWHS13	1344	657230	AC041018	22519	1-284
HCWHS13	1344	657230	AC021164	22520	1-315 3876-3905
HCWHS13	1344	657230	AC018348	22521	1-226
HCWHS13	1344	657230	AC067890	22522	1-223
HCWHS13	1344	657230	AC011175	22523	1-318
HCWHS13	1344	657230	AC036206	22524	1-257
HCWHS13	1344	657230	AL365218	22525	1-321
HCWHS13	1344	657230	AC069483	22526	1-300
HCWHS13	1344	657230	AC024953	22527	1-303
HCWHS13	1344	657230	AL161634	22528	1-300
HCWHS13	1344	657230	AC022695	22529	1-326
HCWHS13	1344	657230	AC022752	22530	1-297
HCWHS13	1344	657230	AC034243	22531	1-312 2334-2364
HCWHS13	1344	657230	AL354924	22532	1-182
HCWHS13	1344	657230	AC016538	22533	1-301
HCWHS13	1344	657230	AC068585	22534	1-268
HCWHS13	1344	657230	AC016615	22535	1-300
HCWHS13	1344	657230	AC026240	22536	1-270
HCWHS13	1344	657230	AC022051	22537	1-294
HCWHS13	1344	657230	AC013758	22538	1-316
HCWHS13	1344	657230	AC021401	22539	1-319
HCWHS13	1344	657230	AL359385	22540	1-295
HCWHS13	1344	657230	AC025201	22541	1-295
HCWHS13	1344	657230	AL162736	22542	1-360 642-1493
HCWHS13	1344	657230	AL162736	22543	1-106
HCWHS13	1344	657230	AL162736	22544	1-262
HCWHS77	1346	861875	AC004854	22545	1-338
HCWHS77	1346	861875	AC004854	22546	1-437
HCWHS77	1346	861875	AC004854	22547	1-475
HCWHT56	1348	849979	AC026528	22548	1-350
HCWHT56	1348	849979	AC026528	22549	1-104
HCWHU47	1352	720340	AC019027	22550	1-723
HCWHU47	1352	720340	AL049869	22551	1-713
HCWHU47	1352	720340	AC019027	22552	1-1943
HCWHU47	1352	720340	AC019027	22553	1-584
HCWHU47	1352	720340	AL049869	22554	1-584
HCWHU47	1352	720340	AL049869	22555	1-545 600-1943
HCWHV18	1357	466511	AC074073	22556	1-413
HCWHV18	1357	466511	AC055764	22557	1-413
HCWHV18	1357	466511	AC022621	22558	1-413
HCWHV18	1357	466511	AC055764	22559	1-413
HCWHV18	1357	466511	AC022621	22560	1-413

HCWHV28	1358	686710	AL365212	22561	1-424 474-1501
HCWHV28	1358	686710	AC034304	22562	1-424 474-1501
HCWHV28	1358	686710	AL034551	22563	1-424 474-1501
HCWHV28	1358	686710	AL365212	22564	1-393
HCWHV28	1358	686710	AC034304	22565	1-393
HCWHV28	1358	686710	AL034551	22566	1-384
HCWHV33	1359	702437	AC019134	22567	1-212
HCWHV33	1359	702437	AP002802	22568	1-212
HCWHV41	1360	960157	AL022329	22569	1-448
HCWHV41	1360	960157	AL022329	22570	1-153
HCWHV64	1362	770049	AL357673	22571	1-516
HCWHV64	1362	770049	AL357673	22572	1-129 223-286
HCWHV94	1365	953379	AC022905	22573	1-415
HCWHV94	1365	953379	AC022905	22574	1-493
HCWHW32	1366	861905	AL158846	22575	1-345
HCWHW83	1368	841937	AP000132	22576	1-556
HCWHW83	1368	841937	AP000210	22577	1-556
HCWHW83	1368	841937	AP000248	22578	1-556
HCWHX09	1370	625596	AL162497	22579	1-797
HCWHX09	1370	625596	AL355810	22580	1-797
HCWHX09	1370	625596	AL355810	22581	1-299
HCWHX09	1370	625596	AL355810	22582	1-207
HCWHX72	1371	849884	AC021024	22583	1-390
HCWHX72	1371	849884	AC022842	22584	1-390
HCWHX72	1371	849884	AC055767	22585	1-378
HCWHX72	1371	849884	AC022842	22586	1-110 120-235
HCWHX72	1371	849884	AC055767	22587	1-157
HCWHX72	1371	849884	AC055767	22588	1-52 64-283
HCWHX91	1372	723178	AC007747	22589	1-347
HCWHX91	1372	723178	AL158136	22590	1-347
HCWHX91	1372	723178	AC007747	22591	1-669
HCWHX91	1372	723178	AC007747	22592	1-520
HCWHX91	1372	723178	AL158136	22593	1-669
HCWHX91	1372	723178	AL158136	22594	1-520
HCWHX95	1373	736004	AC022718	22595	1-384
HCWHX95	1373	736004	AC022718	22596	1-170
HCWHX95	1373	736004	AC022718	22597	1-218
HCWHZ59	1376	739294	AC008522	22598	1-282 550-607 776-955 1811-1921 2235-2627
HCWHZ59	1376	739294	AC008522	22599	1-451
HCWHZ59	1376	739294	AC008522	22600	1-524
HCWHZ83	1377	781186	AC048339	22601	1-275
HCWHZ83	1377	781186	AC048339	22602	1-209
HCWHZ89	1378	668670	AC022444	22603	1-379
HCWHZ89	1378	668670	AC016581	22604	1-379
HCWHZ89	1378	668670	AC008960	22605	1-379
HCWKA28	1381	466763	AP000098	22606	1-385

HCWKA28	1381	466763	AP000174	22607	1-385
HCWKA96	1383	963621	AC022726	22608	1-350
HCWKA96	1383	963621	AP001534	22609	1-350
HCWKA96	1383	963621	AP001915	22610	1-350
HCWKA96	1383	963621	AC022726	22611	1-1169
HCWKA96	1383	963621	AP001534	22612	1-874
HCWKA96	1383	963621	AP001915	22613	1-1169
HCWKA96	1383	963621	AP001534	22614	1-1170
HCWKA96	1383	963621	AP001915	22615	1-874
HCWKB10	1385	964570	AC069194	22616	1-406
HCWKB10	1385	964570	AC004139	22617	1-2150 2284-3650 3837-3903 4507-4839 5112-5907 7176-7650 8647-8960 8981-9134 9147-10325
HCWKB10	1385	964570	AC004139	22618	1-233
HCWKB10	1385	964570	AC004139	22619	1-65 3903-3985 4837-4923 5057-5331 6207-6364 7541-7662 8289-8403 12109-12249 13624-18010
HCWKC83	1386	496385	AC044842	22620	1-152
HCWKC83	1386	496385	AL365272	22621	1-152
HCWKC83	1386	496385	AL133540	22622	1-152
HCWKC83	1386	496385	AC044842	22623	1-293
HCWKC83	1386	496385	AL365272	22624	1-168
HCWKC83	1386	496385	AL133540	22625	1-280
HCWKF28	1389	686655	AC025221	22626	1-316 3726-4285 5149-5289
HCWKF28	1389	686655	AC009953	22627	1-512
HCWKF28	1389	686655	AC025221	22628	1-99
HCWKH16	1393	661898	AC073452	22629	1-345
HCWKH16	1393	661898	AC068766	22630	1-345
HCWKH36	1395	924191	AC048356	22631	1-355
HCWKH36	1395	924191	AL133420	22632	1-297
HCWKJ23	1399	934393	AL354696	22633	1-181
HCWKJ23	1399	934393	AC023864	22634	1-142
HCWKJ23	1399	934393	AC010853	22635	1-195
HCWKJ23	1399	934393	AC011036	22636	1-193
HCWKJ23	1399	934393	AC015604	22637	1-261
HCWKJ23	1399	934393	AC068682	22638	1-153
HCWKJ23	1399	934393	AC027584	22639	1-162
HCWKJ23	1399	934393	AC023583	22640	1-183
HCWKJ23	1399	934393	AL353701	22641	1-168
HCWKJ23	1399	934393	AC016142	22642	1-150
HCWKJ23	1399	934393	AC024475	22643	1-187
HCWKJ23	1399	934393	AC023309	22644	1-193

HCWKJ23	1399	934393	AC055805	22645	1-143
HCWKJ23	1399	934393	AC024337	22646	1-235
HCWKJ23	1399	934393	AC027264	22647	1-147
HCWKJ23	1399	934393	AC000360	22648	1-142
HCWKJ23	1399	934393	AC022677	22649	1-484
HCWKJ23	1399	934393	AL136126	22650	1-484
HCWKJ23	1399	934393	AC023858	22651	1-484
HCWKJ23	1399	934393	AC023864	22652	1-1485 1590-4704
HCWKJ23	1399	934393	AC027584	22653	1-368
HCWKJ23	1399	934393	AC022677	22654	1-768
HCWKJ23	1399	934393	AC022677	22655	1-537
HCWKJ23	1399	934393	AL136126	22656	1-538
HCWKJ23	1399	934393	AL136126	22657	1-768
HCWKJ23	1399	934393	AC023858	22658	1-537
HCWKJ23	1399	934393	AC023858	22659	1-768
HCWKJ60	1401	968112	AL132711	22660	1-368
HCWKJ96	1402	571302	AC023169	22661	1-325
HCWKJ96	1402	571302	AC022015	22662	1-417
HCWKJ96	1402	571302	AC022015	22663	1-248
HCWKM60	1406	740347	AC026895	22664	1-426
HCWKM60	1406	740347	AC026895	22665	1-115
HCWKM60	1406	740347	AC026895	22666	1-84
HCWKM88	1407	792086	AL162711	22667	1-883
HCWKM88	1407	792086	AC011695	22668	1-899
HCWKM88	1407	792086	AL356752	22669	1-452
HCWKM88	1407	792086	AL356752	22670	1-475
HCWKM88	1407	792086	AC011695	22671	1-1331
HCWKM90	1408	960177	AC008556	22672	1-338
HCWKO82	1412	827083	AC024543	22673	1-275
HCWKO82	1412	827083	AC024543	22674	1-606
HCWKP03	1413	924104	AC004742	22675	1-443
HCWKP03	1413	924104	AC024155	22676	1-443
HCWKP03	1413	924104	AC004742	22677	1-169
HCWKP03	1413	924104	AC004742	22678	1-522
HCWKP03	1413	924104	AC024155	22679	1-522
HCWKP03	1413	924104	AC024155	22680	1-169
HCWKP51	1414	725653	AP000763	22681	1-376
HCWKP51	1414	725653	AC025238	22682	1-376
HCWKP51	1414	725653	AC025238	22683	1-420
HCWKP53	1415	664923	AL022161	22684	1-361
HCWKP53	1415	664923	AL022161	22685	1-1106
HCWKP56	1416	849861	AC026461	22686	1-387
HCWKP56	1416	849861	AC026461	22687	1-1052 1326-1553 1633-1754
HCWKP63	1417	732447	AC016643	22688	1-387
HCWKP63	1417	732447	AC016643	22689	1-462
HCWKQ31	1418	849851	AC015595	22690	1-524
HCWKQ31	1418	849851	AL358778	22691	1-524
HCWKQ31	1418	849851	AL358778	22692	1-196
HCWKQ55	1419	706487	AL355100	22693	1-422
HCWKQ55	1419	706487	AL162832	22694	1-422
HCWKQ55	1419	706487	AL355100	22695	1-271
HCWKQ55	1419	706487	AL162832	22696	1-271

HCWKR13	1420	917268	AL355473	22697	1-156
HCWKR13	1420	917268	AC022278	22698	1-231
HCWKR13	1420	917268	AC022278	22699	1-1197
HCWKR80	1421	527074	AC010883	22700	1-1110
HCWKR80	1421	527074	AC010883	22701	1-313
HCWKS13	1422	657194	AL359206	22702	1-562 1110-1494 2233-2416 3213-3824 4103-4588 6241-6594 6719-7103 7702-8046 8134-8515
HCWKS13	1422	657194	AL357314	22703	1-876 1131-1515 2251-2434 3235-3846 4126-4610 6278-6624 6757-7141 7740-8084 8172-8553 8837-8957 9468-9663 10109-10195 12239-12390 15301-15441 17325-20804 21124-21234 22168-22384 24736-24884
HCWKS13	1422	657194	AC026052	22704	1-133
HCWKT11	1423	966989	AF254983	22705	1-394
HCWKT11	1423	966989	AP000023	22706	1-394
HCWKT11	1423	966989	AL078472	22707	1-394
HCWKT11	1423	966989	AF254983	22708	1-154
HCWKT11	1423	966989	AP000023	22709	1-247
HCWKT11	1423	966989	AP000023	22710	1-29 1062-1192 1247-1356 1399-1540
HCWKT11	1423	966989	AL078472	22711	1-247
HCWKT11	1423	966989	AL078472	22712	1-29 1063-1193 1400-1541
HCWKT43	1424	659539	AC018550	22713	1-83
HCWKT57	1425	881629	AC025664	22714	1-303
HCWKT57	1425	881629	AC068053	22715	1-303
HCWKT57	1425	881629	AC025664	22716	1-126
HCWKT57	1425	881629	AC068053	22717	1-126
HCWKT63	1426	849944	AC027637	22718	1-435
HCWKV77	1428	527554	AL139154	22719	1-431 598-1537 2081-2194 2838-2906 3531-3905

					3964-4935
					6101-6251
					6329-6908
					8000-8334
					8505-8691
					8954-9485
					9569-10044
					10639-11625
					12043-12128
					12460-12700
					13146-13660
HCWKV77	1428	527554	AL139154	22720	1-3258 3398-3707
HCWKV77	1428	527554	AL139154	22721	1-359
HCWKX61	1431	676895	AL138709	22722	1-448
HCWKX61	1431	676895	AC026756	22723	1-448
HCWKX68	1432	725014	AC072053	22724	1-356
HCWKX68	1432	725014	AC007463	22725	1-355
HCWLA68	1435	665744	AC012027	22726	1-286
HCWLA68	1435	665744	AC010936	22727	1-286
HCWLA68	1435	665744	AC012027	22728	1-592
HCWLA68	1435	665744	AC010936	22729	1-851 872-1461
HCWLD01	1436	916439	AC026539	22730	1-273
HCWLD01	1436	916439	AC026539	22731	1-336
HCWLD30	1438	933118	AC026257	22732	1-164
HCWLE34	1441	576816	AL122005	22733	1-327
HCWLE34	1441	576816	AL117372	22734	1-327
HCWLE57	1444	764189	AC015935	22735	1-476
HCWLE57	1444	764189	AC015935	22736	1-308 344-1389
HCWLE64	1445	745863	AL135927	22737	1-451
HCWLE64	1445	745863	AL135927	22738	1-760
					1025-1126
					1613-1893
					2370-3167
					3633-4274
					6343-7001
					11559-11690
					13691-13987
					14475-14521
					16057-16496
					16748-17702
					17710-20028
					20611-21250
					21727-22054
					22702-23334
					23377-23778
					23985-24088
					24120-24644
					25167-25309
					26235-26767
					27540-27949
					30484-30913
					31008-31121
					31147-31289
					33289-33679

					34972-35454 35466-35613 35734-35979 37075-37412 37588-37759 38175-38213 38571-38937 40130-40243 40874-41374 41947-42466 42472-42755 42798-42997 45627-46553
HCWLE64	1445	745863	AL135927	22739	1-111
HCWLE95	1446	684331	AC022371	22740	1-322
HCWLE95	1446	684331	AC022371	22741	1-455
HCWLE95	1446	684331	AC022371	22742	1-145
HCWLH42	1450	954875	AC012454	22743	1-198
HCWLH42	1450	954875	AC058812	22744	1-91
HCWLH42	1450	954875	AC012318	22745	1-132
HCWLH42	1450	954875	AL109927	22746	1-1755
HCWLH42	1450	954875	AC002369	22747	1-1333 1663-1760 2438-2530 4503-5088
HCWLH42	1450	954875	AL109927	22748	1-316
HCWLH42	1450	954875	AC002369	22749	1-228
HCWLH75	1451	670202	AC074244	22750	1-776
HCWLH75	1451	670202	AC074244	22751	1-85
HCWLH78	1452	935908	AC008027	22752	1-598 1250-1521
HCWLH78	1452	935908	AC008027	22753	1-781
HCWLH80	1454	577886	AC024385	22754	1-414
HCWSB09	1455	923573	AL359513	22755	1-238
HCWSB09	1455	923573	AL359513	22756	1-57 68-256
HCWSB09	1455	923573	AL359513	22757	1-96
HCWSB30	1456	771897	AC018476	22758	1-528
HCWSB30	1456	771897	AC007949	22759	1-528
HCWSB30	1456	771897	AC007949	22760	1-102
HCWSB65	1457	728360	AC007536	22761	1-207 1500-2130 2320-2415 2425-2967 3074-3239 3403-3646 3756-4197 4305-5428 5577-5792 5870-6195 6293-7850 7892-7990 8128-8687 9987-10657 11020-11110 11714-11816 11890-12477

					13186-13404 14594-16998
HCWSB65	1457	728360	AC007536	22762	1-144
HCWTA59	1459	531422	AL359260	22763	1-98 514-856 1073-1766 2023-2133 3183-3274
HCWTA59	1459	531422	AL359260	22764	1-154
HCWTB01	1460	861850	AL080317	22765	1-374
HCWTB01	1460	861850	AL080317	22766	1-270
HCWTB01	1460	861850	AL080317	22767	1-333
HCWTB08	1461	920509	AC006993	22768	1-272
HCWTB08	1461	920509	AC006993	22769	1-563
HCWTB13	1463	861029	AC069209	22770	1-381
HCWTB13	1463	861029	AC048337	22771	1-381
HCWTB13	1463	861029	AC011216	22772	1-381
HCWTB13	1463	861029	AC048337	22773	1-361
HCWTB13	1463	861029	AC011216	22774	1-362
HCWTB13	1463	861029	AC011216	22775	1-105
HCWTB25	1465	677748	AC012228	22776	1-264
HCWTB25	1465	677748	AC012228	22777	1-279
HCWTB33	1467	702129	AC026487	22778	1-526
HCWTB33	1467	702129	AC026487	22779	1-688
HCWTB33	1467	702129	AC026487	22780	1-1209
HCWTB65	1471	861848	AC021985	22781	1-414
HCWTB65	1471	861848	AC016488	22782	1-414
HCWTB83	1473	730832	AC004963	22783	1-378
HCWTB83	1473	730832	AC004963	22784	1-425
HCWTB83	1473	730832	AC004963	22785	1-420
HCWTF11	1475	966513	AC027666	22786	1-1715
HCWTF11	1475	966513	AC012521	22787	1-1715
HCWTF11	1475	966513	AC027666	22788	1-582
HCWTF11	1475	966513	AC027666	22789	1-222
HCWTF11	1475	966513	AC012521	22790	1-582
HCWTF11	1475	966513	AC012521	22791	1-222
HCWTF19	1476	668358	AC055832	22792	1-550
HCWTF19	1476	668358	AC064859	22793	1-550
HCWTF72	1477	760898	AL359767	22794	1-540
HCWTF72	1477	760898	AL359767	22795	1-100
HCWTG01	1478	915863	AC010863	22796	1-478
HCWTG01	1478	915863	AC016197	22797	1-478
HCWTG01	1478	915863	AC016197	22798	1-107 298-635
HCWTG15	1479	659860	AC026739	22799	1-550
HCWTG15	1479	659860	AC013284	22800	1-550
HCWTG15	1479	659860	AC010812	22801	1-550
HCWTG15	1479	659860	AC013284	22802	1-447
HCWTG26	1480	681271	AP001647	22803	1-556
HCWTG26	1480	681271	AC040896	22804	1-556
HCWTG26	1480	681271	AP001647	22805	1-185
HCWTG26	1480	681271	AC040896	22806	1-185
HCWTG30	1481	954579	AC068429	22807	1-146
HCWTG30	1481	954579	AC068429	22808	1-402 404-874

HCWTG45	1483	662482	AC016299	22809	1-484
HCWTG45	1483	662482	AC012496	22810	1-486
HCWTG60	1484	740078	AC022426	22811	1-356
HCWTG60	1484	740078	AC022440	22812	1-356
HCWTG60	1484	740078	AC011358	22813	1-356
HCWTG60	1484	740078	AC022440	22814	1-97
HCWTG60	1484	740078	AC011358	22815	1-96
HCWTG66	1485	754823	AC021984	22816	1-469
HCWTG66	1485	754823	AC027806	22817	1-469
HCWTG66	1485	754823	AC009722	22818	1-472
HCWTG66	1485	754823	AC021984	22819	1-106
HCWTG66	1485	754823	AC027806	22820	1-106
HCWTG66	1485	754823	AC009722	22821	1-117
HCWTG66	1485	754823	AC009722	22822	1-211
HCWTG77	1486	924107	AC008651	22823	1-368 2142-2889 3649-3930 5148-5773 6717-7220 7679-8094 8917-9211 9671-9754 10002-10093
HCWTG77	1486	924107	AC008651	22824	1-83
HCWTG81	1487	773341	AC053505	22825	1-369
HCWTG81	1487	773341	AC053535	22826	1-369
HCWTI38	1490	576883	AL157831	22827	1-359
HCWTI38	1490	576883	AL157831	22828	1-112
HCWTI44	1491	689971	AC074343	22829	1-372
HCWTI44	1491	689971	AC074343	22830	1-624
HCWTI47	1492	720023	AC008006	22831	1-332
HCWTI54	1493	723080	AC020559	22832	1-335
HCWTI54	1493	723080	AL356534	22833	1-335
HCWTI54	1493	723080	AL357393	22834	1-335
HCWTI54	1493	723080	AL356534	22835	1-168
HCWTI54	1493	723080	AL357393	22836	1-168
HCWTL25	1497	598511	AL121926	22837	1-568
HCWTL25	1497	598511	AL121926	22838	1-82
HCWTL25	1497	598511	AL121926	22839	1-155 573-701 1154-1252 1374-1435 1864-2664
HCWTL51	1498	725482	AC003003	22840	1-432
HCWTL51	1498	725482	AC010494	22841	1-432
HCWTL51	1498	725482	AC003003	22842	1-324
HCWTL51	1498	725482	AC010494	22843	1-324
HCWTL51	1498	725482	AC010494	22844	1-371 1568-1692 3355-3916
HCWTL58	1500	697623	AC073319	22845	1-556
HCWTL58	1500	697623	AC010740	22846	1-557
HCWTL58	1500	697623	AC073319	22847	1-266
HCWTL58	1500	697623	AC010740	22848	1-266
HCWTL78	1502	760707	AC004539	22849	1-380
HCWTL78	1502	760707	AC004539	22850	1-421

HCWTL78	1502	760707	AC004539	22851	1-618
HCWTL85	1503	836155	AL121656	22852	1-2346 2487-3703 3832-4167
HCWTL85	1503	836155	AL139353	22853	1-705
HCWTL85	1503	836155	AL139353	22854	1-116
HCWTM16	1504	661569	AC010150	22855	1-481 783-1158 4670-4952 5705-5737 6179-7376
HCWTM16	1504	661569	AC010150	22856	1-188
HCWTO06	1505	934912	AP000405	22857	1-341
HCWTO06	1505	934912	AP001271	22858	1-223
HCWTO06	1505	934912	AC011645	22859	1-153
HCWTO06	1505	934912	AC017046	22860	1-146
HCWTO06	1505	934912	AC007163	22861	1-136
HCWTO06	1505	934912	AC007163	22862	1-1148 1308-2065
HCWTO29	1506	660457	AL136108	22863	1-363
HCWTO29	1506	660457	AL136108	22864	1-252
HCWTO35	1507	706525	AC010138	22865	1-364
HCWTO35	1507	706525	AC010138	22866	1-278
HCWTO52	1508	726444	AC027507	22867	1-721
HCWTP13	1510	656678	AC010633	22868	1-390
HCWTP22	1511	674158	AL031661	22869	1-424
HCWTP77	1513	529346	AL035443	22870	1-413
HCWTP77	1513	529346	Z96804	22871	1-413
HCWTP77	1513	529346	AL035443	22872	1-102
HCWTP77	1513	529346	Z96804	22873	1-102
HCWTP90	1514	788663	AC013565	22874	1-125
HCWTP90	1514	788663	AC005481	22875	1-274
HCWTP90	1514	788663	AC006321	22876	1-274
HCWTP91	1515	661551	AC008039	22877	1-2493
HCWTP91	1515	661551	AC008039	22878	1-476
HCWTP91	1515	661551	AC008039	22879	1-289
HCWTR54	1517	729290	AC067954	22880	1-391
HCWTR54	1517	729290	AC009195	22881	1-392
HCWTR54	1517	729290	AC009195	22882	1-113 886-1250 1279-1845 1991-2072 2452-2480
HCWTR54	1517	729290	AC067954	22883	1-145
HCWTR54	1517	729290	AC009195	22884	1-104
HCWTR77	1518	659506	AC023958	22885	1-673
HCWTR77	1518	659506	AC023958	22886	1-292
HCWTS84	1520	669926	AL355153	22887	1-547
HCWTS84	1520	669926	AL163193	22888	1-547
HCWTT20	1521	669430	AC009162	22889	1-210
HCWTT47	1523	706527	AC068084	22890	1-402
HCWTT63	1524	542409	AC063960	22891	1-443
HCWTT63	1524	542409	AC063960	22892	1-295
HCWTT81	1525	712302	AC022483	22893	1-391
HCWTT81	1525	712302	AC022483	22894	1-292
HCWTT89	1526	786693	AC021685	22895	1-384

HCWTT89	1526	786693	AC021685	22896	1-559
HCWTU12	1527	934902	AC073094	22897	1-553
HCWTV73	1532	574912	AC025787	22898	1-544
HCWTV73	1532	574912	AC025787	22899	1-841
HCWTV73	1532	574912	AC025787	22900	1-105
HCWUA19	1534	668355	Z99716	22901	1-711 1005-1232 1385-1566 2022-2225 4314-4496 4531-4954 4975-5379 5856-6259 6363-6541 7188-7994 8459-9157 10018-10854 11242-11555 11969-13378 13504-13808 13843-14093 14147-14446 15699-15952 17846-17915 18274-19383 19978-20524 21119-21351 22117-22437 22888-23143 23536-24202 24317-24629 24696-25467 25471-26113 26419-26985 28247-28367 28689-28793 29497-29584 30482-30594 31730-31830 32070-32530 32668-33557 33761-34151 36401-36895 37654-38177 38297-38410 38627-40742
HCWUA19	1534	668355	Z99716	22902	1-532
HCWUA23	1535	577964	AC005837	22903	1-1284 1308-1577 2480-2988 3037-3212 3885-5891 6165-6580 7761-8308
HCWUA23	1535	577964	AC005837	22904	1-401 504-1350 2758-3059

					3929-4278 5642-6400 6522-7041
HCWUA43	1536	715000	AC018570	22905	1-131
HCWUA43	1536	715000	AC011168	22906	1-139
HCWUA43	1536	715000	AL390030	22907	1-123
HCWUA43	1536	715000	AC034240	22908	1-141
HCWUA43	1536	715000	AC008439	22909	1-125
HCWUA43	1536	715000	AC024502	22910	1-163
HCWUA43	1536	715000	AC068594	22911	1-121
HCWUA43	1536	715000	AC007922	22912	1-98
HCWUA43	1536	715000	AC068013	22913	1-125
HCWUA43	1536	715000	AC060763	22914	1-129
HCWUA43	1536	715000	AC074269	22915	1-166
HCWUA43	1536	715000	AC068243	22916	1-124
HCWUA43	1536	715000	AC068025	22917	1-127
HCWUA43	1536	715000	AC073284	22918	1-156 545-993 1650-1697
HCWUA43	1536	715000	AC073284	22919	1-534
HCWUA90	1537	706532	AC008682	22920	1-386
HCWUA90	1537	706532	AC008682	22921	1-414
HCWUB03	1538	923556	AC015967	22922	1-457
HCWUB03	1538	923556	AC068513	22923	1-457
HCWUB03	1538	923556	AC011815	22924	1-457
HCWUB08	1539	958770	AC019198	22925	1-484
HCWUB83	1541	853008	AL133523	22926	1-756
HCWUB83	1541	853008	AL133523	22927	1-551
HCWUB83	1541	853008	AL133523	22928	1-389
HCWUC64	1543	588122	AC012170	22929	1-965
HCWUC64	1543	588122	AC009851	22930	1-1483
HCWUC64	1543	588122	AC009851	22931	1-1551
HCWUC64	1543	588122	AC009851	22932	1-997
HCWUD83	1546	827340	AC041008	22933	1-150 564-713
HCWUD85	1547	529221	AC023459	22934	1-473
HCWUD85	1547	529221	AL110115	22935	1-345
HCWUD85	1547	529221	AC023459	22936	1-343
HCWUD85	1547	529221	AL110115	22937	1-343
HCWUD85	1547	529221	AL110115	22938	1-127
HCWUD93	1548	574856	AC021778	22939	1-353
HCWUD93	1548	574856	AC058782	22940	1-71 600-1037 4276-4677 4827-5179 5354-5540
HCWUD93	1548	574856	AL359830	22941	1-353
HCWUD93	1548	574856	AC021778	22942	1-402
HCWUD93	1548	574856	AC058782	22943	1-202
HCWUD93	1548	574856	AL359830	22944	1-167
HCWUD93	1548	574856	AC021778	22945	1-167
HCWUD93	1548	574856	AC058782	22946	1-852
HCWUD93	1548	574856	AL359830	22947	1-402
HCWUF05	1549	849929	AC009434	22948	1-416
HCWUF05	1549	849929	AC009434	22949	1-344
HCWUF46	1552	656680	AC022220	22950	1-521

HCWUF46	1552	656680	AL135783	22951	1-521
HCWUF54	1553	933212	AC025077	22952	1-247
HCWUF54	1553	933212	AC048342	22953	1-247
HCWUF54	1553	933212	AC018658	22954	1-247
HCWUF54	1553	933212	AC025838	22955	1-247
HCWUF54	1553	933212	AC025077	22956	1-369
HCWUF54	1553	933212	AC048342	22957	1-369
HCWUF54	1553	933212	AC025077	22958	1-279
HCWUF54	1553	933212	AC048342	22959	1-279
HCWUF54	1553	933212	AC018658	22960	1-279
HCWUF54	1553	933212	AC018658	22961	1-369
HCWUF54	1553	933212	AC025838	22962	1-279
HCWUF84	1554	686711	AC068084	22963	1-998
HCWUF84	1554	686711	AC068084	22964	1-109
HCWUG43	1555	697616	AC024402	22965	1-450
HCWUG43	1555	697616	AL035530	22966	1-450
HCWUG43	1555	697616	AC024402	22967	1-115 331-546
HCWUG43	1555	697616	AL035530	22968	1-115 331-546
HCWUG43	1555	697616	AL035530	22969	1-341
HCWUG59	1556	573548	AL355800	22970	1-603 689-1044 1393-3334 3465-4237 4299-5184 5270-5749 5767-6081 6086-6915
HCWUG59	1556	573548	AC027727	22971	1-816 1465-1779 1782-2672
HCWUG59	1556	573548	AC026900	22972	1-2078 2378-2968 3217-4094 4180-4659 4664-6770 6814-7224
HCWUG59	1556	573548	AC007734	22973	1-878 965-3577 3629-4114 4284-4661 5904-6256 6318-7144 7977-8313 8636-8845 9811-10358
HCWUG59	1556	573548	AL137798	22974	1-1267 1992-2206 3581-4120
HCWUG59	1556	573548	AC026900	22975	1-1310
HCWUG59	1556	573548	AC007734	22976	1-1379
HCWUG59	1556	573548	AL355800	22977	1-497 804-1280
HCWUG59	1556	573548	AC026900	22978	1-374
HCWUG59	1556	573548	AC007734	22979	1-351

HCWUG59	1556	573548	AL137798	22980	1-603 689-1044 1397-3334 3721-4237 4307-5184
HCWUG59	1556	573548	AL137798	22981	1-480
HCWUH17	1558	662478	AC008497	22982	1-865
HCWUH17	1558	662478	AC009016	22983	1-501
HCWUH17	1558	662478	AC004749	22984	1-865
HCWUH17	1558	662478	AC008497	22985	1-779
HCWUH17	1558	662478	AC008497	22986	1-1012
HCWUH17	1558	662478	AC009016	22987	1-1486
HCWUH17	1558	662478	AC004749	22988	1-4838
HCWUH17	1558	662478	AC004749	22989	1-776
HCWUH25	1559	677747	AC010297	22990	1-401
HCWUH25	1559	677747	AC010239	22991	1-401
HCWUH25	1559	677747	AC010297	22992	1-529
HCWUH25	1559	677747	AC010297	22993	1-155 1435-1758 1789-2540
HCWUH25	1559	677747	AC010239	22994	1-529
HCWUH25	1559	677747	AC010239	22995	1-155 1435-1748 1789-2540
HCWUH85	1560	752790	AF286886	22996	1-207 1520-1855 5674-5821 10039-10175 14621-14744 15169-15283 16867-17374 17723-18059 19957-20417 29413-29791 30874-31164 33595-34080 34189-34643 35692-35850 37870-39238 39344-40308
HCWUH85	1560	752790	AF286886	22997	1-588
HCWUI10	1561	964028	AC011461	22998	1-446
HCWUI10	1561	964028	AC011461	22999	1-282
HCWUI17	1562	662483	AJ010597	23000	1-412
HCWUI17	1562	662483	AJ010597	23001	1-191
HCWUI17	1562	662483	AJ010597	23002	1-702
HCWUK13	1563	656679	AC040174	23003	1-398
HCWUK13	1563	656679	AC027279	23004	1-404
HCWUK13	1563	656679	AC040174	23005	1-599
HCWUK13	1563	656679	AC027279	23006	1-587
HCWUK56	1564	733122	AC034164	23007	1-475
HCWUK56	1564	733122	AF186189	23008	1-475
HCWUK77	1565	771883	AC007681	23009	1-527
HCWUK95	1566	615550	AC036184	23010	1-401
HCWUL03	1567	923572	AC027152	23011	1-493
HCWUL03	1567	923572	AC018974	23012	1-493

HCWUL24	1569	968380	AC011242	23013	1-441
HCWUL32	1570	523358	AL118558	23014	1-141
					490-670
					807-921
					1154-1446
					1738-1883
					3053-3092
					4741-4965
					5169-5618
					5807-5965
					6107-6218
					6388-6675
					6773-6881
					6962-7173
					7351-7502
					8174-8218
					8358-8520
					8609-8786
					9775-10096
					10114-10330
					10335-10504
					10579-10770
					10862-11054
					11706-11819
					14037-14152
					15304-15606
					15657-15901
					16091-16272
					16346-16888
					17093-17565
					17688-17935
					18130-18290
					18788-19094
					19456-19894
					20916-21144
					21668-22301
					22494-22815
					22899-23108
					23197-23320
					23727-23931
					24260-24436
					24767-24989
					25705-25871
					28563-28693
					29711-30146
					30509-30797
					31282-31922
					32381-32523
					32985-33100
					33195-33356
					33431-33644
					33740-33970
					34399-34746
					35277-35567
					35633-35750
					35974-36101
					36124-36476
					38082-38675

					38876-39003 39077-40008 40121-40398 40559-40656 42254-42653 42846-43221 44186-44664 44815-45071 45223-45367 45443-45547 46049-46224 46410-46487 47384-47550 47824-47940 48043-48107 48194-48933 49144-49456 49547-51652 51710-52007 52430-52637 53321-53569 53630-53843 54318-54485 54667-55098 55244-55396 55495-55698 55870-56026 56239-56743
HCWUL32	1570	523358	AL133223	23015	1-107 293-370 1267-1433 1707-1823 1926-1990 2077-2816 3027-3339 3431-5015 5593-5883 7509-7722 8197-8364 8546-8977 9123-9275 9374-9577 9749-9905 10118-10622
HCWUL32	1570	523358	AL118558	23016	1-194
HCWUL32	1570	523358	AL118558	23017	1-439
HCWUL32	1570	523358	AL133223	23018	1-558
HCWUL69	1573	740373	AC024468	23019	1-199
HCWUL69	1573	740373	AL358813	23020	1-564 645-831 1604-2190 3300-3610 3823-4547 4581-5356
HCWUL69	1573	740373	AL162612	23021	1-564 645-831 1605-2191

					3310-3620 3833-4556 4590-5365
HCWUL69	1573	740373	AC024468	23022	1-585
HCWUL69	1573	740373	AL358813	23023	1-236
HCWUL69	1573	740373	AL358813	23024	1-232
HCWUL69	1573	740373	AL162612	23025	1-238
HCWUL69	1573	740373	AL162612	23026	1-105
HCWUL74	1574	690750	AL137157	23027	1-612 643-2194 2506-3091 3106-3498 3638-4353 5964-6053
HCWUL74	1574	690750	AL137157	23028	1-1402
HCWUL83	1575	527566	AP001260	23029	1-557
HCWUL83	1575	527566	AP000743	23030	1-559
HCWUL83	1575	527566	AC040925	23031	1-559
HCWUO10	1577	861840	AC073343	23032	1-448
HCWUO10	1577	861840	AC073343	23033	1-178
HCWUO81	1578	756978	AL138976	23034	1-592
HCWUO81	1578	756978	AL138976	23035	1-346
HCWUP64	1579	746328	AC073118	23036	1-625
HCWUQ02	1580	968431	AF216673	23037	1-426
HCWUQ02	1580	968431	AF216673	23038	1-287
HCWUQ77	1581	719064	AL390963	23039	1-508
HCWUQ77	1581	719064	AL390963	23040	1-165
HCWUR43	1582	714529	AC046171	23041	1-522
HCWUR43	1582	714529	AC046171	23042	1-1147
HCWUR83	1583	958776	AC011116	23043	1-315
HCWUR95	1584	711186	AL162497	23044	1-797
HCWUR95	1584	711186	AL355810	23045	1-797
HCWUR95	1584	711186	AL355810	23046	1-299
HCWUR95	1584	711186	AL355810	23047	1-207
HCWUS02	1585	919224	AL160276	23048	1-1115
HCWUS29	1586	690351	AC008482	23049	1-628
HCWUS29	1586	690351	AC026779	23050	1-628 1104-1991
HCWUS29	1586	690351	AC008482	23051	1-852
HCWUS29	1586	690351	AC026779	23052	1-459
HCWUS29	1586	690351	AC008482	23053	1-217
HCWUS29	1586	690351	AC026779	23054	1-851
HCWUS63	1587	542330	AP000241	23055	1-290 930-1148 2814-2929 3717-4023 4823-6164 6782-7260 8258-8394
HCWUS63	1587	542330	AF124731	23056	1-290 930-1148 2809-2924 3728-4036 4835-6176 6794-7272 8270-8406

HCWUS63	1587	542330	AP000201	23057	1-290 930-1148 3717-4011 4823-6164 6782-7260 8258-8394
HCWUS63	1587	542330	AP000097	23058	1-290 930-1148 3717-4011 4823-6164 6782-7260 8258-8394
HCWUS63	1587	542330	AP000241	23059	1-881
HCWUS63	1587	542330	AF124731	23060	1-881
HCWUS63	1587	542330	AP000201	23061	1-881
HCWUS63	1587	542330	AP000097	23062	1-881
HCWUS72	1588	855815	AC005089	23063	1-195 1913-2074 2140-2237 3151-3323 3477-4231 4490-4676 5141-5298 5641-5779 7183-7426 7638-9682
HCWUS72	1588	855815	AC005089	23064	1-441
HCWUT24	1589	676902	AL031228	23065	1-556
HCWUT46	1590	861836	AC010616	23066	1-637 988-1467 1541-2836
HCWUT46	1590	861836	AC010616	23067	1-167
HCWUT46	1590	861836	AC010616	23068	1-591
HCWUU58	1594	735736	AC008678	23069	1-373 1719-2205 2566-3060 4089-4131
HCWUV17	1596	662485	AP001336	23070	1-90
HCWUV17	1596	662485	AP000801	23071	1-237
HCWUV17	1596	662485	AP001453	23072	1-217
HCWUV17	1596	662485	AC007215	23073	1-282 1514-2126 2364-2692
HCWUV17	1596	662485	AC007215	23074	1-87
HCWUV24	1597	676909	AL049775	23075	1-405
HCWUV24	1597	676909	AL049775	23076	1-394
HCWUV65	1599	676334	AC021517	23077	1-435
HCWUV65	1599	676334	AP002473	23078	1-435
HCWUV65	1599	676334	AC007989	23079	1-435
HCWUV65	1599	676334	AP002473	23080	1-338
HCWUW01	1601	915860	AL137121	23081	1-541
HCWUW01	1601	915860	AL137121	23082	1-242
HCWUW01	1601	915860	AL137121	23083	1-122
HCWUW55	1603	964086	AL357500	23084	1-524
HCWUW55	1603	964086	AL357500	23085	1-175
HCWUW69	1605	882383	AC010436	23086	1-552

HCWUW90	1608	712303	AC022834	23087	1-369
HCWUW90	1608	712303	AC023214	23088	1-381
HCWUW90	1608	712303	AC023214	23089	1-309
HCWUW90	1608	712303	AC023214	23090	1-457
HCWUX02	1610	852993	AC005247	23091	1-556
HCWUX78	1612	773336	AL353751	23092	1-65 1685-1991 5244-5554 5875-6329 6677-7141
HCWUX78	1612	773336	AL353146	23093	1-455 803-1267
HCWUX78	1612	773336	AC060826	23094	1-65 1696-1992 5244-5554 5875-6329 6677-7141
HCWUX78	1612	773336	AL353751	23095	1-293
HCWUX78	1612	773336	AL353146	23096	1-298
HCWUX78	1612	773336	AC060826	23097	1-308
HCWUY16	1613	661550	AC023491	23098	1-536
HCWUY16	1613	661550	AC008132	23099	1-536
HCWUY16	1613	661550	AL356748	23100	1-536
HCWUY16	1613	661550	AC012330	23101	1-536
HCWUY16	1613	661550	AC007325	23102	1-536
HCWUY16	1613	661550	AC007708	23103	1-536
HCWUY16	1613	661550	AC008018	23104	1-536
HCWUY16	1613	661550	AC005815	23105	1-536
HCWUY16	1613	661550	AC007981	23106	1-536
HCWUY16	1613	661550	AC007664	23107	1-536
HCWUY26	1615	681249	AC040968	23108	1-368
HCWUY26	1615	681249	AC011942	23109	1-377
HCWUY26	1615	681249	AC011942	23110	1-117
HCWUY69	1617	615630	AC020776	23111	1-548
HCWUY69	1617	615630	AC022810	23112	1-550
HCWUY69	1617	615630	AC024035	23113	1-548
HCWUY69	1617	615630	AC020776	23114	1-388
HCWUY69	1617	615630	AC022810	23115	1-388
HCWUY69	1617	615630	AC024035	23116	1-388
HCWVF94	1621	793533	AL161670	23117	1-669
HCWVF94	1621	793533	AL161670	23118	1-2457
HCWWH59	1622	770274	AC025809	23119	1-476
HCWWH65	1623	747324	AL138960	23120	1-188
HCWWH65	1623	747324	AL139184	23121	1-188
HCWWH67	1624	772342	AL162426	23122	1-265 591-1958 2200-2328 2806-2944 4317-4914 5146-5258 6511-6817
HCWWH69	1625	861830	AC026645	23123	1-545
HCWWH69	1625	861830	AC001236	23124	1-73 2967-3242 3742-4218 4918-5022

					5752-5836 6310-7934 8484-8874 8903-9994
HCWWH69	1625	861830	AC002536	23125	1-623 792-907 2048-2154 6684-6762 9650-9925 10425-10900 11600-11704 12434-12521 12765-12984 12986-14616 15166-15557 15585-16676
HCWWH69	1625	861830	AC026645	23126	1-203
HCWWH69	1625	861830	AC002536	23127	1-707 2214-2496 3309-3397 4442-4744
HDCAD10	1627	963330	AC010896	23128	1-502
HDCAD10	1627	963330	AC010896	23129	1-168 614-696 1354-1464 2050-2317 2523-2571 2648-2729 4797-4947 5314-6622 6760-6961 7820-8254 8411-8503 10690-11184 11822-11922
HDCAG86	1628	852970	AC012325	23130	1-448
HDCAP64	1629	922818	AC044882	23131	1-463
HDCAP64	1629	922818	AC018569	23132	1-463
HDCAV79	1630	881404	AL035541	23133	1-163 2195-3349 3521-3813 4243-4736 5539-5763 7123-7704 8281-8774 10286-10457 10909-10976 11492-11907 15614-15809
HDCAV79	1630	881404	AL035541	23134	1-462
HDCAY54	1631	959750	AC011140	23135	1-442
HDDMA83	1633	926991	AL355811	23136	1-118 649-1382
HDDMA83	1633	926991	AL353671	23137	1-38 1917-1993 2452-2606 3137-3870

HDDNY79	1634	933804	AL049569	23138	1-471
HDDNY79	1634	933804	AL049569	23139	1-127
HDLAC80	1636	799887	AC027698	23140	1-272
HDLAC80	1636	799887	AF189005	23141	1-272
HDLAC80	1636	799887	AF286887	23142	1-272
HDLAC80	1636	799887	AC027698	23143	1-287
HDLAC80	1636	799887	AF189005	23144	1-287
HDLAC80	1636	799887	AF286887	23145	1-287
HDLAK03	1639	923285	AC025518	23146	1-155
HDLAK03	1639	923285	AC073195	23147	1-176
HDLAK03	1639	923285	AC022051	23148	1-294
HDLAK03	1639	923285	AC022096	23149	1-105
HDLAK03	1639	923285	AC021401	23150	1-319
HDLAK03	1639	923285	AC026153	23151	1-305
HDLAK03	1639	923285	AL359385	23152	1-295
HDLAK03	1639	923285	AC023008	23153	1-296
HDLAK03	1639	923285	AC027590	23154	1-122
HDLAK03	1639	923285	AC008963	23155	1-111
HDLAK03	1639	923285	AC027142	23156	1-311
HDLAK03	1639	923285	AC020920	23157	1-183
HDLAK03	1639	923285	AC027146	23158	1-30 1277-1575
HDLAK03	1639	923285	AC008494	23159	1-122
HDLAK03	1639	923285	AC025184	23160	1-186
HDLAK03	1639	923285	AC008494	23161	1-130
HDLAK03	1639	923285	AC027142	23162	1-192 415-823
HDLAO27	1641	787084	AC009756	23163	1-1686
HDLAO27	1641	787084	AC009756	23164	1-98 711-959 1223-1574 3680-3846 4297-4468 4836-5092 5775-8952
HDLAO27	1641	787084	AC009756	23165	1-509
HDLAR24	1643	943930	AC024927	23166	1-295
HDLAR24	1643	943930	AC024217	23167	1-295
HDLAR24	1643	943930	AC024927	23168	1-295
HDLAR24	1643	943930	AC024217	23169	1-295
HDLAR24	1643	943930	AC024217	23170	1-263
HDLAV29	1644	922276	AC018589	23171	1-97 488-1166 1235-1865 2238-2953
HDLAV29	1644	922276	AC018557	23172	1-97 488-1166 1235-1865 2238-2953
HDLAV29	1644	922276	AC010542	23173	1-984 1724-2189 3526-3988 5020-5117 5860-6022 7443-7894 8864-9543

					9727-10241 10269-10381 10792-10891 11279-11957 12026-12656 13030-13744
HDLAV29	1644	922276	AC018589	23174	1-2084
HDLAV29	1644	922276	AC018589	23175	1-971
HDLAV29	1644	922276	AC018557	23176	1-2084
HDLAV29	1644	922276	AC010542	23177	1-349
HDLAV29	1644	922276	AC018557	23178	1-972
HDLBB03	1645	923286	AC040908	23179	1-612
HDLBB03	1645	923286	AL133217	23180	1-116 1936-3805 4905-5133 5187-5800 5875-5969
HDLBB03	1645	923286	AL390875	23181	1-611
HDLBB03	1645	923286	AL390875	23182	1-93 1243-2439
HDMAQ15	1646	941282	AP000934	23183	1-293 329-806 2280-2450 2982-3129 4657-4771 5514-5680 7163-7550 8570-9406 9425-10143
HDMAQ15	1646	941282	AC004126	23184	1-54 2731-3380 3598-3872 4237-4529 4565-5042 6520-6690 7222-7369 8897-9011 9754-9920 11404-11792 12816-13651 13671-14981 14996-15184 15601-15795 16283-16943 17040-17505 18915-19066 19160-19363 20386-20534 22085-22420 23187-23408 23626-23842 24043-24572 26313-26555
HDMAQ15	1646	941282	AP000934	23185	1-288
HDMAQ15	1646	941282	AC004126	23186	1-477
HDMAQ15	1646	941282	AC004126	23187	1-1674 2010-2421

					2455-2568
					3517-3763
					9178-9544
					9748-10280
HDMBH76	1647	883212	AC021163	23188	1-26
					107-233
					595-755
					818-1369
					1447-3127
					3768-4083
					4249-4862
					5139-5913
HDMBK12	1648	968954	AC009956	23189	1-478
HDMBK12	1648	968954	AC009475	23190	1-478
HDMBK12	1648	968954	AC009475	23191	1-638
HDPAA89	1649	693445	AC026645	23192	1-1481
HDPAA89	1649	693445	AC002536	23193	1-1484
HDPAA89	1649	693445	AC001236	23194	1-1484
HDPAA89	1649	693445	AC026645	23195	1-477
HDPAA89	1649	693445	AC002536	23196	1-303
					1348-1436
					2249-2531
					4038-4744
HDPAA89	1649	693445	AC001236	23197	1-303
					1350-1438
					2251-2533
					4041-4747
HDPAB03	1650	924124	AL360215	23198	1-443
					468-721
HDPAB03	1650	924124	AL078600	23199	1-443
					468-721
HDPAB03	1650	924124	AL360215	23200	1-422
HDPAB03	1650	924124	AL078600	23201	1-422
HDPAE86	1652	709072	AC009973	23202	1-831
HDPAE86	1652	709072	AC013723	23203	1-831
HDPAE86	1652	709072	AC009973	23204	1-409
					600-1547
HDPAE86	1652	709072	AC013723	23205	1-409
					600-1585
HDPAF70	1653	881626	AC016048	23206	1-466
HDPAF70	1653	881626	AC016048	23207	1-955
HDPAF70	1653	881626	AC016048	23208	1-2015
HDPAG32	1655	947832	AC009073	23209	1-589
					3624-4258
HDPAH10	1656	969041	AC017002	23210	1-517
HDPAH10	1656	969041	AC017002	23211	1-140
					154-756
HDPAQ24	1657	677179	AC024884	23212	1-410
HDPAQ24	1657	677179	AC027473	23213	1-410
HDPAS40	1658	860041	AC015841	23214	1-2053
					2165-2265
					2924-3214
					3296-3502
					4385-4934
					5025-5099
					5426-5627

					6584-6773
					7649-8160
					8275-8415
					8693-8807
					9020-9169
					9407-9644
					10137-10297
					10444-10481
HDPAS40	1658	860041	AC003004	23215	1-1997
					2868-3158
					3240-3446
					4329-4878
					4969-5043
					5370-5571
					6528-6717
					7594-8105
					8220-8360
					8638-8752
					8965-9114
					9352-9589
					10078-10242
					10389-10458
					10667-10785
					10945-11129
					11336-11542
					11731-11858
					11883-12022
					12044-12637
					13146-14320
					14715-14889
					15108-15260
					15451-15782
					15904-15983
HDPAS40	1658	860041	AC004586	23216	1-2954
					3066-3166
					3825-4115
					4197-4403
					5286-5835
					5926-6000
					6327-6528
					7485-7674
					8551-9062
					9177-9317
					9595-9709
					9922-10071
					10309-10546
					11035-11199
					11346-11415
					11624-11742
					11902-12086
					12293-12499
					12688-12802
					12840-12967
					13001-13595
					14104-15277
					15672-15846
					16065-16217

					16408-16739 16861-16940
HDPAZ73	1661	756742	AC025840	23217	1-195 710-828 1676-1875 2042-2543 4393-4882 5006-5228 5564-5998 6192-6388
HDPAZ73	1661	756742	AC025840	23218	1-191
HDPBC24	1662	760623	AC023176	23219	1-83 4520-4772 5425-5730 9859-10028
HDPBC24	1662	760623	AC023176	23220	1-411
HDPBM64	1665	773091	AC010731	23221	1-821 1249-2085
HDPBM64	1665	773091	AC008269	23222	1-821 1249-2085 4032-4826 4910-5371 5789-6046 6506-6629 6793-6936 7415-7765 8443-9101 16676-17223 18634-19031 21347-21511 22549-22771 22892-23346 23432-23518 24073-24696 25184-25302 25595-25843 25862-27845 27848-28051 29761-29981 30051-30803
HDPBM64	1665	773091	AC010731	23223	1-260 1650-1794 1984-2125 3423-3520 5655-5766 9048-9620 10000-10041
HDPBM64	1665	773091	AC008269	23224	1-206
HDPBM64	1665	773091	AC008269	23225	1-260 1650-1794 1984-2125 3423-3520 5655-5766 9048-9620 10000-10041
HDPBO71	1666	888109	AC027367	23226	1-88 2554-3036

					4775-4870 5703-5966 6432-6450 6987-7088 7289-9445
HDPBO71	1666	888109	AC025249	23227	1-88 2554-3036 4775-4870 5703-5966 6432-6450 6987-7088 7288-9443
HDPBW10	1668	964553	AL138875	23228	1-502
HDPBW10	1668	964553	AL138875	23229	1-620 1124-1424
HDPBW26	1669	670345	AC007172	23230	1-140 5036-5257 10422-10586 14217-14282
HDPBW26	1669	670345	AC007172	23231	1-164
HDPBW26	1669	670345	AC007172	23232	1-383
HDPBX82	1670	779848	AC026884	23233	1-662
HDPBX82	1670	779848	AC020950	23234	1-237 242-633
HDPBX82	1670	779848	AC005336	23235	1-237 242-633
HDPBX82	1670	779848	AC026884	23236	1-2188
HDPBX82	1670	779848	AC026884	23237	1-593
HDPBX82	1670	779848	AC020950	23238	1-1180
HDPBX82	1670	779848	AC020950	23239	1-1761
HDPBX82	1670	779848	AC005336	23240	1-1761
HDPBX82	1670	779848	AC005336	23241	1-1180
HDPBY23	1671	858345	AL139249	23242	1-158 660-743 920-1415 1636-1696 2147-2272 2470-3339 3957-4548 4571-6007
HDPBY23	1671	858345	AP000933	23243	1-525
HDPBY23	1671	858345	AL139249	23244	1-349
HDPBY23	1671	858345	AP000933	23245	1-1436
HDPBY23	1671	858345	AP000933	23246	1-193
HDPCC48	1672	709005	AC062024	23247	1-186 283-495 1654-2049 2807-2975 2989-3436 3555-4814 4865-5179 5365-5533 5943-6092 6161-6328 6351-6731 6792-7163
HDPCC48	1672	709005	AL159177	23248	1-38

					67-433
					530-1506
					2048-2286
					2383-2595
					3755-4149
					4909-5077
					5091-5538
					5657-6916
					6967-7281
					7467-7635
					8045-8186
					8265-8432
					8455-8835
					8898-9271
HDPCC48	1672	709005	AC062024	23249	1-2098
HDPCC48	1672	709005	AL159177	23250	1-2927
HDPCC48	1672	709005	AL159177	23251	1-554
HDPCH65	1673	950716	AL135744	23252	1-891
					946-1989
HDPCH65	1673	950716	AL135744	23253	1-293
HDPCH65	1673	950716	AL135744	23254	1-154
					247-1477
HDPCK27	1674	683383	AC008074	23255	1-464
HDPCK27	1674	683383	AC008074	23256	1-458
HDPCK27	1674	683383	AC008074	23257	1-394
HDPCK66	1675	766231	AC008676	23258	1-445
HDPCK66	1675	766231	AC008676	23259	1-2475
HDPCK66	1675	766231	AC008676	23260	1-180
					2632-2995
					3318-3409
					5349-7046
					7856-8334
					9803-10009
					11070-11149
					11258-11376
					12075-12196
					12391-12672
					13794-13878
					13971-14217
					14475-16424
HDPCM35	1676	973352	AL162741	23261	1-741
HDPCM35	1676	973352	AL162741	23262	1-181
					488-526
HDPCR34	1679	852871	AC013281	23263	1-82
					492-635
					1636-1905
					1991-2104
					2573-2669
					3403-3601
					4592-4928
					5247-6013
					6040-6200
					6227-6544
					6985-7270
					7534-7992
					8800-8859
					8962-9433

					9765-10237 10651-10730 10975-11150
HDPCR34	1679	852871	AC018988	23264	1-635 1143-1463 6094-6258 7704-7825 7960-7997 10176-10320 11116-11237 11941-12007 27207-27381 27778-27859 28270-28413 29414-29683 29769-29882 30351-30447 31181-31379 32370-32706 33025-33791 33815-33981 33990-34332 34763-35048 35312-35770 36578-36637 36740-37211 37543-38508 38753-38928
HDPCR34	1679	852871	AC013281	23265	1-277
HDPCR34	1679	852871	AC013281	23266	1-175
HDPCR34	1679	852871	AC018988	23267	1-147
HDPCR34	1679	852871	AC018988	23268	1-277
HDPCS43	1680	714479	AL159141	23269	1-325
HDPCS43	1680	714479	AL136332	23270	1-325
HDPCV60	1681	720278	AL358940	23271	1-1340
HDPCV60	1681	720278	AC009682	23272	1-1341
HDPCV60	1681	720278	AL358940	23273	1-548
HDPCV60	1681	720278	AC009682	23274	1-548
HDPCY03	1683	924057	AC022092	23275	1-121 2381-2724
HDPCY03	1683	924057	AC022092	23276	1-616
HDPCY93	1685	571375	AC021331	23277	1-449
HDPCY93	1685	571375	AP001810	23278	1-467
HDPCY93	1685	571375	AC015537	23279	1-467
HDPCY93	1685	571375	AC018529	23280	1-467
HDPCY93	1685	571375	AC021331	23281	1-119
HDPCY93	1685	571375	AP001810	23282	1-71 80-411
HDPCY93	1685	571375	AC018529	23283	1-119
HDPCY93	1685	571375	AC018529	23284	1-71 80-411
HDPDI78	1686	773556	AL137074	23285	1-309
HDPDJ24	1687	677166	AC009682	23286	1-1350
HDPDJ90	1688	735027	AC005606	23287	1-546 809-1229 1471-2776

HDPDJ90	1688	735027	AC005363	23288	1-546 809-1229 1471-2776
HDPDJ90	1688	735027	AC005606	23289	1-491 679-1626 2228-2464
HDPDJ90	1688	735027	AC005606	23290	1-551
HDPDJ90	1688	735027	AC005363	23291	1-491 679-1626 2228-2464
HDPDJ90	1688	735027	AC005363	23292	1-551
HDPDL79	1690	774943	AC008676	23293	1-732 997-1157 1335-3227
HDPDL79	1690	774943	AC008676	23294	1-501
HDPDO46	1692	719010	AC073352	23295	1-791
HDPDO46	1692	719010	AC073352	23296	1-1348
HDPDO46	1692	719010	AC073352	23297	1-351
HDPFF07	1694	974494	AC017034	23298	1-611
HDPFF07	1694	974494	AC017034	23299	1-625
HDPFJ21	1695	852824	AL034555	23300	1-492 522-907 2547-2927 3370-3491
HDPFJ21	1695	852824	AL034555	23301	1-149 211-821 1769-1958
HDPFQ93	1696	772456	AC055879	23302	1-378
HDPFQ93	1696	772456	AL049766	23303	1-112 1475-1615 2155-2261 2890-3206 3310-3397 5743-5860 6009-8098 10034-10563 11024-11128 11774-11905 12442-12815 13176-13326 14389-14816 16103-16389 17463-17579 17610-17752 18150-18451 19236-19375 19711-19928 20046-20132 20349-20892 21173-21612 21651-22682 22905-22999 23391-24000 24233-24376 25209-25322 25415-26006 26204-26977

					27936-28039 28045-30069 30196-30573 30641-32145
HDPFQ93	1696	772456	AC055879	23304	1-2025
HDPFQ93	1696	772456	AL049766	23305	1-140 195-631
HDPFQ93	1696	772456	AC055879	23306	1-1504
HDPFQ93	1696	772456	AL049766	23307	1-384 392-480 739-2334
HDPFV55	1697	575202	AC027120	23308	1-681
HDPFV55	1697	575202	AC027120	23309	1-685
HDPFV55	1697	575202	AC027120	23310	1-274
HDPFW80	1698	734937	AC013564	23311	1-575
HDPFY90	1699	788870	AC073343	23312	1-362
HDPFY90	1699	788870	AC073343	23313	1-177 375-485 835-1160 1233-1278 1360-1775 2475-2852
HDPFY90	1699	788870	AC073343	23314	1-211
HDPFZ58	1700	735975	AL359542	23315	1-140 1249-4264
HDPFZ58	1700	735975	AL023653	23316	1-140 1249-4264
HDPFZ58	1700	735975	AL359542	23317	1-499
HDPFZ58	1700	735975	AL359542	23318	1-145
HDPFZ58	1700	735975	AL023653	23319	1-499
HDPGI14	1704	415961	AC027507	23320	1-466
HDPGI14	1704	415961	AL138898	23321	1-466
HDPGI14	1704	415961	AL138898	23322	1-332
HDPGJ95	1706	919792	AC072039	23323	1-936
HDPGL65	1707	666830	AC010297	23324	1-529
HDPGL65	1707	666830	AC010239	23325	1-529
HDPGL65	1707	666830	AC010297	23326	1-401
HDPGL65	1707	666830	AC010239	23327	1-401
HDPGM85	1708	783563	AC020915	23328	1-466
HDPGM85	1708	783563	AC023149	23329	1-466
HDPGM85	1708	783563	AC020915	23330	1-465
HDPGM85	1708	783563	AC023149	23331	1-478
HDPGM85	1708	783563	AC020915	23332	1-299
HDPGM85	1708	783563	AC023149	23333	1-217 366-451 2434-2691 2849-3139 3210-3322 3964-4111 4124-4235 4365-4937 5410-6815
HDPGO52	1710	852800	AC019260	23334	1-362 1338-1490 1862-1996 3998-4128

					7466-7784 8377-8535 8930-9283 9705-9949 10294-10722 11667-12118 12157-12340 13860-18667
HDPGO52	1710	852800	AL390718	23335	1-47 612-715 2162-2475 3476-3568 6736-7097 8073-8225 8597-8733 10733-10863 14201-14519 15112-15270 15665-16018 16440-16684 17029-17457 18402-18853 18892-19075 20595-25402
HDPGO52	1710	852800	AC019260	23336	1-458
HDPGO52	1710	852800	AL390718	23337	1-84
HDPGO52	1710	852800	AL390718	23338	1-274
HDPGP75	1712	872249	AP000330	23339	1-420
HDPGP75	1712	872249	AP000172	23340	1-632
HDPGP75	1712	872249	AP000057	23341	1-632
HDPGP75	1712	872249	AP000125	23342	1-632
HDPGP75	1712	872249	AP000330	23343	1-526
HDPGP75	1712	872249	AP000172	23344	1-330
HDPGP75	1712	872249	AP000172	23345	1-755
HDPGP75	1712	872249	AP000057	23346	1-330
HDPGP75	1712	872249	AP000057	23347	1-755
HDPGP75	1712	872249	AP000125	23348	1-330
HDPGP75	1712	872249	AP000125	23349	1-755
HDPGU50	1714	720595	AP001895	23350	1-471
HDPGU50	1714	720595	AP002479	23351	1-471
HDPGU50	1714	720595	AC012569	23352	1-471
HDPGU50	1714	720595	AP001895	23353	1-499
HDPGU50	1714	720595	AP002479	23354	1-499
HDPGU50	1714	720595	AP001895	23355	1-231
HDPGU50	1714	720595	AP002479	23356	1-231
HDPGU50	1714	720595	AC012569	23357	1-231
HDPGU50	1714	720595	AC012569	23358	1-499
HDPHG23	1718	416041	AL354797	23359	1-374
HDPHG23	1718	416041	AL359692	23360	1-374
HDPHG23	1718	416041	AC013740	23361	1-374
HDPHG23	1718	416041	AL354797	23362	1-117
HDPHG23	1718	416041	AL359692	23363	1-117
HDPHG23	1718	416041	AL354797	23364	1-417
HDPHG23	1718	416041	AL359692	23365	1-417
HDPHG23	1718	416041	AC013740	23366	1-417
HDPHG23	1718	416041	AC013740	23367	1-117

HDPHG89	1720	733198	AC005005	23368	1-696
HDPHG89	1720	733198	AC005005	23369	1-286
HDPHG89	1720	733198	AC005005	23370	1-261
HDPHI02	1722	919825	AC013449	23371	1-1121 1730-2263
HDPHI02	1722	919825	AC011742	23372	1-1121 1730-2263
HDPHI02	1722	919825	AC013449	23373	1-444
HDPHI02	1722	919825	AC013449	23374	1-528
HDPHI02	1722	919825	AC011742	23375	1-528
HDPHI02	1722	919825	AC011742	23376	1-444
HDPHI71	1723	760325	AC005805	23377	1-133 2788-2935 5582-6121
HDPHI71	1723	760325	AC005805	23378	1-2228
HDPHJ36	1724	706624	AC012053	23379	1-355
HDPHJ36	1724	706624	AC036227	23380	1-355
HDPHJ36	1724	706624	AC011006	23381	1-355
HDPHJ36	1724	706624	AC036227	23382	1-147
HDPHJ36	1724	706624	AC011006	23383	1-147
HDPHK96	1725	921957	AL353092	23384	1-1838
HDPHK96	1725	921957	AL353092	23385	1-274
HDPHK96	1725	921957	AL353092	23386	1-1034
HDPIA15	1726	772020	AL049766	23387	1-112 1475-1615 2155-2261 2890-3206 3310-3397 5743-5860 6009-8098 10034-10563 11024-11128 11774-11905 12442-12815 13176-13326 14389-14816 16103-16389 17463-17579 17610-17752 18150-18451 19236-19375 19711-19928 20046-20132 20349-20892 21173-21612 21651-22682 22905-22999 23391-24000 24233-24376 25209-25322 25415-26006 26204-26977 27936-28039 28045-30069 30196-30573 30641-32145
HDPIA15	1726	772020	AL049766	23388	1-140

					195-631
HDPIA15	1726	772020	AL049766	23389	1-384 392-480 739-2334
HDPIC37	1727	954869	AC012487	23390	1-105 200-276 670-1368 1872-2258
HDPIC37	1727	954869	AC012487	23391	1-875
HDPID10	1728	928163	AC019038	23392	1-537
HDPID37	1729	868169	AC053540	23393	1-3592
HDPID37	1729	868169	AC053540	23394	1-915
HDPIE42	1730	713081	AC008542	23395	1-1412 1505-2999 3853-4023 4214-4346 4615-5204 5306-5377 5492-5608 5770-6169 6648-7168 7289-7442 7866-7942 8040-8723 8755-9920 10076-10521 10747-11178 11546-11649 11660-11960 12592-12685 12781-12949 12989-13097 13163-13441 13498-15799 16037-16328 17434-17481
HDPIE42	1730	713081	AC008404	23396	1-1846
HDPIE42	1730	713081	AC023788	23397	1-154 578-654 752-1435 1467-2633 2789-3234 3460-3733 3875-3978 4010-4273 4921-5014 5110-5761 5818-8122
HDPIE42	1730	713081	AC008542	23398	1-153 637-1449 1570-1916 2032-2133 2175-2634 3393-3759 3927-5655
HDPIE42	1730	713081	AC008404	23399	1-292
HDPIE42	1730	713081	AC023788	23400	1-520

HDPIE42	1730	713081	AC023788	23401	1-290
HDPIF86	1731	591540	AL117258	23402	1-866
HDPIF86	1731	591540	AL117258	23403	1-228 1766-1855 2823-2946
HDPIF86	1731	591540	AL117258	23404	1-223
HDPIH48	1732	677664	AL022316	23405	1-501
HDPIH48	1732	677664	AL022316	23406	1-558
HDPIH48	1732	677664	AL022316	23407	1-100
HDPIQ65	1735	747791	AL161775	23408	1-755
HDPIQ65	1735	747791	AL157877	23409	1-754
HDPIQ65	1735	747791	AL161775	23410	1-253
HDPIQ65	1735	747791	AL157877	23411	1-253
HDPIQ65	1735	747791	AL157877	23412	1-353
HDPIT53	1736	926498	AC021591	23413	1-227 2808-3194 3438-3607 5003-5159 5369-5634 6412-6799 7330-7454 7809-7918 8505-9252
HDPIT53	1736	926498	AC021591	23414	1-190 298-563 980-1113 1197-1367 1445-1661 1767-1929 2007-2155 2213-2821 2897-4727 4817-4911 4925-5846 5861-6731 6733-7188 7233-7340 7496-7582 7940-8071 8271-8408 9521-9579 9786-9871 10020-10848 11712-11823 12593-12670 13206-13292
HDPIT53	1736	926498	AC021591	23415	1-262 414-513
HDPIT61	1737	741724	AC004126	23416	1-477
HDPIT61	1737	741724	AC004126	23417	1-54 2731-3380 3598-3872 4237-4529 4565-5042 6520-6690 7222-7369 8897-9011

					9754-9920
					11404-11792
					12816-13651
					13671-14981
					14996-15184
					15601-15795
					16283-16943
					17040-17505
					18915-19066
					19160-19363
					20386-20534
					22085-22420
					23187-23408
					23626-23842
					24043-24572
					26313-26555
HDPJA04	1738	628745	AC068629	23418	1-972
					1105-1476
HDPJA04	1738	628745	AC068629	23419	1-279
HDPJB08	1740	921453	AC012361	23420	1-445
HDPJK06	1742	852781	Z95115	23421	1-1384
HDPJK06	1742	852781	Z95115	23422	1-956
					971-1547
					1979-2186
					4757-4958
HDPJK06	1742	852781	Z95115	23423	1-112
HDPJK73	1743	765446	AL158091	23424	1-463
HDPJK73	1743	765446	AL158091	23425	1-118
HDPJN68	1744	752907	AC008560	23426	1-643
					1245-4748
					4868-5026
					5164-5579
					5747-6356
					7102-7871
					8354-8554
					9266-9750
					10751-10782
					11659-11908
					12018-12146
					14738-15223
					16781-17402
HDPJN68	1744	752907	AC008560	23427	1-257
HDPJN68	1744	752907	AC008560	23428	1-40
					1598-2336
HDPJP32	1746	918630	AC007000	23429	1-2494
HDPJP32	1746	918630	AC007000	23430	1-104
HDPJP32	1746	918630	AC007000	23431	1-640
					2826-3888
HDPKD52	1750	959653	AC003070	23432	1-1172
HDPKD52	1750	959653	AC003070	23433	1-84
HDPKD52	1750	959653	AC003070	23434	1-570
HDPKD82	1751	778970	AC013291	23435	1-395
HDPKD82	1751	778970	AC013291	23436	1-418
HDPKD82	1751	778970	AC013291	23437	1-162
HDPKK25	1753	677921	AL031668	23438	1-869
HDPKK25	1753	677921	AL031668	23439	1-773
HDPKK25	1753	677921	AL031668	23440	1-191

HDPLB25	1754	965139	AC022415	23441	1-66 481-592 715-985 992-2205
HDPLB25	1754	965139	AC022415	23442	1-190
HDPLB25	1754	965139	AC022415	23443	1-299
HDPLC60	1756	740144	AC010480	23444	1-680
HDPLC60	1756	740144	AC020728	23445	1-681
HDPLC60	1756	740144	AC010480	23446	1-192
HDPLC60	1756	740144	AC010480	23447	1-326
HDPLC60	1756	740144	AC020728	23448	1-326
HDPLC60	1756	740144	AC020728	23449	1-192
HDPLD29	1758	690409	AC055827	23450	1-445
HDPLD29	1758	690409	AC055827	23451	1-123
HDPLD57	1759	734528	AC015545	23452	1-442
HDPLD57	1759	734528	AC023484	23453	1-442
HDPLD57	1759	734528	AC024167	23454	1-442
HDPLD57	1759	734528	AC015545	23455	1-600
HDPLD57	1759	734528	AC024167	23456	1-602
HDPLD89	1760	786704	AC021781	23457	1-452
HDPLD89	1760	786704	AC021781	23458	1-525
HDPLD89	1760	786704	AC021781	23459	1-368
HDPLE38	1761	706639	AC069131	23460	1-386
HDPLE38	1761	706639	AP001571	23461	1-386
HDPLE38	1761	706639	AC013290	23462	1-386
HDPLE63	1762	703477	AC022084	23463	1-147 388-490 560-958 1148-1479 2004-4169
HDPLE63	1762	703477	AC027140	23464	1-147 388-490 560-1021 1138-1469 1993-4158
HDPLE63	1762	703477	AC022084	23465	1-453
HDPLE75	1763	852685	AC008457	23466	1-456
HDPLE75	1763	852685	AC013508	23467	1-456
HDPLE75	1763	852685	AC013508	23468	1-122
HDPLE88	1764	625293	AC011743	23469	1-462
HDPLE88	1764	625293	AC011743	23470	1-419
HDPLE88	1764	625293	AC011743	23471	1-130
HDPLE96	1765	915966	AC011319	23472	1-461
HDPLE96	1765	915966	AC069204	23473	1-461
HDPLE96	1765	915966	AC011319	23474	1-336
HDPLE96	1765	915966	AC069204	23475	1-336
HDPLG10	1767	964213	AL360001	23476	1-463
HDPLG10	1767	964213	AL139817	23477	1-463
HDPLG10	1767	964213	AL139817	23478	1-459
HDPLJ28	1768	840111	AC036191	23479	1-109 274-433 756-1187 1853-2201 2902-4963
HDPLN06	1770	935010	AC027682	23480	1-437
HDPLN06	1770	935010	AC009095	23481	1-437

HDPLN06	1770	935010	AC027682	23482	1-136 400-537 658-1242 1358-1939 2039-2492
HDPLN06	1770	935010	AC027682	23483	1-797
HDPLN06	1770	935010	AC009095	23484	1-797 829-1171 1592-1794 3259-3399
HDPLN06	1770	935010	AC009095	23485	1-518 595-899 1008-1450 1544-1679 1943-2080 2201-2786 2903-3485 3585-4038
HDPLN76	1771	921700	AC009093	23486	1-404
HDPLN76	1771	921700	AC017077	23487	1-93 531-1024 1050-1137 1333-1673 2448-2562 2609-3140 3495-3911 5018-5115 5122-5515 6387-6573 8360-8472 8921-9259
HDPLN76	1771	921700	AC007615	23488	1-198 304-1305 1815-2290 2746-3072 3389-3863 4728-5028 6407-6508 6930-7429 7456-7659 7755-8094 8878-8983 9030-9561 9920-10335 11448-11938 12809-12995 14700-14900 17365-17803
HDPLN76	1771	921700	AC040158	23489	1-520 870-1785 2490-3404 4507-4759 7284-7537 7731-7928 8034-8177 8304-9017 9360-9998

					10278-10781
					11098-11563
					12439-13346
					14196-14297
					15145-15929
					16611-16716
					16763-17296
					17645-18057
					19433-19574
					19998-20494
					21212-21344
					22520-23172
					24039-24225
					26013-26130
					28610-29076
					29112-29406
					30016-30115
					30570-30976
					31008-31099
					32384-34269
HDPLN76	1771	921700	AF001549	23490	1-521
					871-1790
					2495-3409
					4592-4705
					7282-7535
					7726-7923
					8029-9032
					9410-10019
					10331-10801
					11118-11583
					12457-13442
					14216-14317
					.14755-15248
					15275-15362
					15558-15898
					16550-16791
					16834-17365
					17718-18136
					19243-19340
					19347-19740
					20612-20798
					22585-22697
					23145-23815
HDPLN76	1771	921700	AC009093	23491	1-532
HDPLN76	1771	921700	AC007615	23492	1-300
HDPLN76	1771	921700	AC007615	23493	1-254
HDPLN76	1771	921700	AF001549	23494	1-149
HDPLT29	1773	958196	AL353147	23495	1-787
HDPLT29	1773	958196	AL353147	23496	1-632
HDPLV74	1774	765334	AL034375	23497	1-492
HDPLV74	1774	765334	AL138883	23498	1-492
HDPLV74	1774	765334	AL034375	23499	1-287
HDPLV74	1774	765334	AL034375	23500	1-1326
HDPLV74	1774	765334	AL138883	23501	1-287
HDPLV74	1774	765334	AL138883	23502	1-1326
HDPMC49	1776	852767	AC008676	23503	1-1470
HDPMF53	1777	733466	AC022621	23504	1-116

HDPMF53	1777	733466	AC022621	23505	1-871 1182-1338
HDPMP25	1781	678068	AP000902	23506	1-815
HDPMP25	1781	678068	AC019358	23507	1-815
HDPMQ34	1782	956248	AL160291	23508	1-530
HDPMQ34	1782	956248	AL365228	23509	1-530
HDPMQ34	1782	956248	AL160291	23510	1-899
HDPMQ34	1782	956248	AL160291	23511	1-300
HDPMQ34	1782	956248	AL365228	23512	1-115 527-629 741-1140 2622-3583 3991-4229 4991-5948
HDPMW22	1785	665153	AC073394	23513	1-215 3164-3399
HDPMW22	1785	665153	AL160264	23514	1-215 3164-3399
HDPMW22	1785	665153	AL160264	23515	1-546
HDPNA03	1787	924082	AC005913	23516	1-112
HDPNA03	1787	924082	AC005913	23517	1-344
HDPNJ14	1792	767447	AC037438	23518	1-453
HDPNJ14	1792	767447	AC034281	23519	1-453
HDPNJ14	1792	767447	AC007601	23520	1-453
HDPNJ14	1792	767447	AC037438	23521	1-347
HDPNJ14	1792	767447	AC034281	23522	1-347
HDPNJ14	1792	767447	AC007601	23523	1-347
HDPOF25	1795	852745	AC055839	23524	1-199 761-1816 2152-2615 2864-2979 4355-4963 4985-5572 6800-7034 8034-8472 8643-8725 9045-9207 10837-11292 11324-11482
HDPOF25	1795	852745	AC001237	23525	1-199 761-1382 1400-1817 2153-2616 2865-2980 4356-4964 4986-5573 6801-6891 8038-8476 8646-8728 9048-9210 10832-11287 11319-11477
HDPOF25	1795	852745	AC001237	23526	1-358
HDPOK47	1798	973097	AC017113	23527	1-1121 1876-1977 2372-2630 3295-4013

HDPOK47	1798	973097	AL358789	23528	1-381
HDPOK47	1798	973097	AL109804	23529	1-86 393-695 2345-2611 2985-3904 4603-5446 5467-5608 6481-6582 6976-7234 7899-8638 9094-9354 9548-10236
HDPOK47	1798	973097	AL358789	23530	1-438
HDPOK47	1798	973097	AL109804	23531	1-161 684-1524 1611-1868 2185-2484 2550-3044 3158-3539 4120-4422 4682-4784 5155-5227 5763-7414
HDPOK47	1798	973097	AL109804	23532	1-390
HDPOL60	1799	767953	AC005849	23533	1-28 77-377 1129-1352 1690-1823 1918-2049 2264-2657 2743-3134 3342-3447 3515-3708 3937-3995 4291-4714 4830-5112 5278-5734
HDPOL60	1799	767953	AC005849	23534	1-366 2177-3032
HDPOL60	1799	767953	AC005849	23535	1-316
HDPOX65	1801	674963	AC026401	23536	1-401
HDPOX65	1801	674963	AF001548	23537	1-992 1172-1921 2598-2735 3606-4004 5672-5711 5805-6228 9540-9767 10861-11447 11768-11971 12029-12141 14005-14217 15178-15306 15864-16258 16450-16872 17016-17193 17433-17518

					17699-17923
					18285-18744
					19156-19316
					20257-23219
					23418-24052
					24082-24483
					25842-25989
					27627-28005
					29383-29881
					32231-32446
					34314-34488
					35433-35558
					36916-37057
					37173-37311
					38328-38539
					38626-38769
					41995-42103
					44436-44596
					44740-44810
					44914-45035
					45941-46437
					46622-46844
					47005-47090
HDPOX65	1801	674963	AC026401	23538	1-101
HDPOX65	1801	674963	AF001548	23539	1-368
HDPOX65	1801	674963	AF001548	23540	1-543
HDPOY33	1802	702285	AC009404	23541	1-1704
					1993-5553
					8090-8223
					8485-8677
					8899-9733
					10035-13802
					16575-19182
					19291-19673
					21279-21782
					21792-22635
					22784-22888
					22972-24132
HDPOY33	1802	702285	AC009404	23542	1-368
HDPOZ51	1803	926977	AC021163	23543	1-26
					107-233
					595-755
					818-1369
					1447-3127
					3768-4083
					4249-4862
					5139-5913
HDPPG86	1808	923846	AL158152	23544	1-6049
					8437-9272
					9371-9523
					11900-12703
					13529-13693
					14081-14437
					15219-15333
					16106-16532
					16785-16930
					18772-20802

					21278-21497 22261-22609 24440-30515
HDPPG86	1808	923846	AL360020	23545	1-357
HDPPG86	1808	923846	AC007924	23546	1-357
HDPPG86	1808	923846	AL158152	23547	1-783
HDPPG86	1808	923846	AL360020	23548	1-165
HDPPG86	1808	923846	AC007924	23549	1-428
HDPPG86	1808	923846	AC007924	23550	1-165
HDPPK33	1809	666510	AL356483	23551	1-782 786-1493
HDPPK33	1809	666510	AL356483	23552	1-398
HDPPK33	1809	666510	AL356483	23553	1-157
HDPPL30	1810	692095	AC023415	23554	1-422 1023-1605 2102-2900 4781-4884 5818-6505 6934-7063 10642-10921 12574-13158
HDPPL30	1810	692095	AC048331	23555	1-583
HDPPL30	1810	692095	AC023415	23556	1-329
HDPPL30	1810	692095	AC048331	23557	1-358
HDPPL30	1810	692095	AC023415	23558	1-537
HDPPM09	1811	625281	AL359977	23559	1-1199
HDPPM09	1811	625281	AC025705	23560	1-1197 1220-1776
HDPPM09	1811	625281	AC025705	23561	1-435
HDPPN33	1812	958993	AL157885	23562	1-102 1177-1557 3826-4059 4274-4913 5648-5735 5762-6384 6582-6748 7767-8007
HDPPN33	1812	958993	AC015944	23563	1-234 449-1087 1822-1909 1936-2557 2755-2921 3940-4180
HDPPO88	1814	963382	AC018682	23564	1-650
HDPPO88	1814	963382	AC018682	23565	1-601
HDPPO88	1814	963382	AC018682	23566	1-263
HDPPQ39	1816	712993	AC027437	23567	1-1493 1541-2105
HDPPQ39	1816	712993	AC073204	23568	1-905 1065-1493 1541-2486 3115-3142 3312-4143 4332-4807 4974-5069 5194-6117

HDPPQ39	1816	712993	AC073204	23569	1-1118 1301-1461 1492-1775 1902-2363 2646-2708
HDPPQ39	1816	712993	AC073204	23570	1-446
HDPPU30	1817	671973	AL022238	23571	1-665
HDPPU30	1817	671973	AL022238	23572	1-103 729-914 982-1140 1431-1494 3035-3477 3633-4052 4271-4832 6389-9016 9108-9709 9715-10578 10636-10691 10721-11461 11816-12044 12259-12403 12636-12828 13193-13339 13816-13929 14025-14238 14358-15622 16275-16343 16805-16889 17667-17787
HDPPU30	1817	671973	AL022238	23573	1-53 96-388 1686-2107 4903-5228 7077-7254 7775-7922 10358-10503
HDPPW36	1819	785239	AC004612	23574	1-137 1807-1946 2661-3289 3771-3930 6341-6440
HDPPW36	1819	785239	AF049895	23575	1-137 1807-1946 2661-3289 3771-3930 6341-6440
HDPPW36	1819	785239	AF069291	23576	1-137 1807-1946 2661-3289 3771-3930 6341-6440
HDPPW36	1819	785239	AC004612	23577	1-661 682-819
HDPPW36	1819	785239	AF049895	23578	1-661 682-819
HDPPW36	1819	785239	AF069291	23579	1-661 682-819

HDPQJ45	1824	928430	AC060793	23580	1-139
HDPQJ45	1824	928430	AC022276	23581	1-166
HDPQJ45	1824	928430	AC023055	23582	1-99 144-449 870-2277
HDPQJ45	1824	928430	AC023055	23583	1-166
HDPQJ45	1824	928430	AC023055	23584	1-442 577-792
HDPQL64	1826	746043	AC025071	23585	1-391
HDPQL64	1826	746043	AC032044	23586	1-391
HDPQL64	1826	746043	AC025071	23587	1-215
HDPQL64	1826	746043	AC032044	23588	1-710
HDPQL64	1826	746043	AC025071	23589	1-710
HDPQL64	1826	746043	AC032044	23590	1-162
HDPQL72	1827	760934	AC013357	23591	1-88 552-703 729-832 1401-1575 1596-1976 2398-3341 3861-4214 6338-6508 6926-7037 7860-8057 8356-8463 10390-10720 12025-12417 12463-12642 15139-15221 16393-16516 16974-17101 17723-18072 18460-18828 19654-20980 21772-22204 24358-25188 25402-25917 27113-27236 27987-28136 30099-30518 30583-30819 31195-31311 31848-32763
HDPQL72	1827	760934	AC013357	23592	1-277
HDPQN03	1828	923168	AC026817	23593	1-534
HDPQN03	1828	923168	AC016207	23594	1-316 668-1202 1389-3698
HDPQN03	1828	923168	AC026817	23595	1-1420
HDPQN03	1828	923168	AC026817	23596	1-310
HDPQO40	1829	949723	AL157813	23597	1-1688
HDPQO40	1829	949723	AL157813	23598	1-311
HDPQO40	1829	949723	AL157813	23599	1-101
HDPQQ77	1830	739816	AC008949	23600	1-265 480-957 1452-1915
HDPQQ77	1830	739816	AC034240	23601	1-266

					482-960
					1455-1918
HDPQQ77	1830	739816	AC034240	23602	1-135
HDPQQ77	1830	739816	AC034240	23603	1-257
HDPQR31	1831	741278	AC025963	23604	1-426
					803-878
					1696-1820
HDPQR31	1831	741278	AC025959	23605	1-426
					803-878
					1696-1820
HDPQR31	1831	741278	AC003695	23606	1-426
					803-878
					1696-1820
HDPQR31	1831	741278	AC025963	23607	1-107
HDPQR31	1831	741278	AC025959	23608	1-221
HDPQR31	1831	741278	AC025963	23609	1-234
HDPQR31	1831	741278	AC025959	23610	1-107
HDPQR31	1831	741278	AC003695	23611	1-131
HDPQR31	1831	741278	AC003695	23612	1-107
HDPQU30	1832	768771	AC009682	23613	1-563
HDPQU30	1832	768771	AC009682	23614	1-115
HDPQV63	1833	744471	AC002348	23615	1-1442
					1567-2195
HDPQV63	1833	744471	AC002348	23616	1-102
HDPQV63	1833	744471	AC002348	23617	1-657
					2327-2439
					2632-2735
					3458-3660
					3945-4387
					4630-5826
					8988-9018
HDPRE10	1835	961306	AC034183	23618	1-416
HDPRE10	1835	961306	AC005105	23619	1-415
HDPRE10	1835	961306	AC034183	23620	1-153
HDPRH02	1837	919404	AL356218	23621	1-468
					1738-1944
					2021-2143
					3614-3733
					3955-4134
					4478-4941
					5024-5189
					5275-5394
					5580-5638
					5723-6110
HDPRH02	1837	919404	AL353675	23622	1-468
					1739-1945
					2022-2144
					3615-3734
					3956-4135
					4479-4942
					5025-5190
					5276-5395
					5581-5639
					5724-6111
HDPRH02	1837	919404	AL356218	23623	1-90
HDPRH02	1837	919404	AL353675	23624	1-90
HDPRH02	1837	919404	AL356218	23625	1-98

					273-398 530-677 804-877 1080-1225 1369-1431
HDPRH02	1837	919404	AL353675	23626	1-98 273-398 530-677 804-877 1080-1225 1369-1431
HDPRH59	1838	739077	AL138916	23627	1-636 678-1117
HDPRH59	1838	739077	AL138916	23628	1-200
HDPRH59	1838	739077	AL138916	23629	1-120
HDPRI39	1839	773790	AC021163	23630	1-771 1021-1117
HDPRI39	1839	773790	AC011495	23631	1-771 1021-1117
HDPRI39	1839	773790	AC021163	23632	1-410
HDPRI39	1839	773790	AC011495	23633	1-410
HDPRI39	1839	773790	AC011495	23634	1-172
HDPRL58	1840	724652	AC025362	23635	1-369
HDPRL58	1840	724652	AC005803	23636	1-369
HDPRL58	1840	724652	AC025362	23637	1-279 3108-3213 3287-3386
HDPRL58	1840	724652	AC025362	23638	1-917
HDPRL58	1840	724652	AC005803	23639	1-280 3107-3212 3286-3385
HDPRL58	1840	724652	AC005803	23640	1-912
HDPRN15	1841	577985	AC069225	23641	1-797
HDPRN15	1841	577985	AC016138	23642	1-797
HDPRN15	1841	577985	AC016138	23643	1-603
HDPRP83	1843	773394	AC035150	23644	1-468
HDPRP83	1843	773394	AC006213	23645	1-468
HDPRP83	1843	773394	AC035150	23646	1-432
HDPRP83	1843	773394	AC006213	23647	1-432
HDPRY05	1845	958822	AF216671	23648	1-460
HDPRY05	1845	958822	AC009908	23649	1-89 311-772 3534-4451
HDPRY05	1845	958822	AC009908	23650	1-526
HDPRY70	1847	677782	AC004917	23651	1-1787
HDPRY70	1847	677782	AC004917	23652	1-2671
HDPRY70	1847	677782	AC004917	23653	1-1212
HDPSG10	1849	961323	AL357560	23654	1-176 723-1081
HDPSG10	1849	961323	AL133174	23655	1-176 723-1081
HDPSG10	1849	961323	AL357560	23656	1-739
HDPSG10	1849	961323	AL133174	23657	1-178
HDPSU54	1854	670838	AL133367	23658	1-645
HDPSU54	1854	670838	AL133367	23659	1-263
HDPSV04	1855	614924	AC021331	23660	1-439

HDPSV04	1855	614924	AP001853	23661	1-439
HDPSV04	1855	614924	AP001649	23662	1-439
HDPSY30	1857	691778	AL358340	23663	1-401
HDPSY30	1857	691778	AC022969	23664	1-401
HDPSY30	1857	691778	AL358340	23665	1-320
HDPSY30	1857	691778	AL358340	23666	1-87
HDPSY30	1857	691778	AC022969	23667	1-87
HDPSY30	1857	691778	AC022969	23668	1-320
HDPTC31	1858	878639	AC018458	23669	1-549
HDPTC31	1858	878639	AC018458	23670	1-275
HDPTJ25	1859	706448	AC008048	23671	1-91
HDPTJ25	1859	706448	AC007846	23672	1-139
HDPTJ25	1859	706448	AC011116	23673	1-106
HDPTJ25	1859	706448	AC023232	23674	1-127
HDPTJ25	1859	706448	AC068013	23675	1-125
HDPTJ25	1859	706448	AC026153	23676	1-114
HDPTJ25	1859	706448	AC073842	23677	1-165
HDPTJ25	1859	706448	AC060763	23678	1-129
HDPTJ25	1859	706448	AC068243	23679	1-124
HDPTJ25	1859	706448	AC068884	23680	1-122
HDPTJ25	1859	706448	AP002357	23681	1-170
HDPTJ25	1859	706448	AC022911	23682	1-91
HDPTJ25	1859	706448	AC024380	23683	1-157
HDPTJ25	1859	706448	AC016524	23684	1-155
HDPTJ25	1859	706448	AC013583	23685	1-133
HDPTJ25	1859	706448	AC027802	23686	1-117
HDPTJ25	1859	706448	AC016186	23687	1-104
HDPTJ25	1859	706448	AC022025	23688	1-141
HDPTJ25	1859	706448	AC034240	23689	1-141
HDPTJ25	1859	706448	AC008439	23690	1-125
HDPTJ25	1859	706448	AC068594	23691	1-121
HDPTJ25	1859	706448	AC021923	23692	1-104
HDPTJ25	1859	706448	AC015884	23693	1-207
HDPTJ25	1859	706448	AL390864	23694	1-291
HDPTJ25	1859	706448	AC006512	23695	1-658 3090-3543 4479-5105 5885-6846 7103-9707 9914-10293 11523-12034 12067-12181 13769-14031 14199-14291 14584-14790 15123-15154 17039-17482 17539-17987 18697-19052 19112-19380 20023-20268 21158-21598 21817-22221 23565-23665 23906-24076 24981-25506

					25510-25861 25981-26645 26661-27449 27717-27812 27991-28024 28437-28888 29651-33442 33621-34089 34245-34808 34819-35284 35854-35960 38525-38771
HDPTJ25	1859	706448	AP001077	23696	1-510
HDPTJ25	1859	706448	AC021923	23697	1-68 864-1002
HDPTJ25	1859	706448	AC023232	23698	1-105
HDPTJ25	1859	706448	AC024380	23699	1-154
HDPTJ25	1859	706448	AC015884	23700	1-131
HDPTJ25	1859	706448	AC006512	23701	1-315 439-531 707-1080 1144-1227 1491-1845 2113-2321 2700-3556 3818-4307 4336-4813 4958-5775
HDPTJ25	1859	706448	AC006512	23702	1-738
HDPTJ79	1860	669209	AC027164	23703	1-1391
HDPTJ79	1860	669209	AC024388	23704	1-1248
HDPTJ79	1860	669209	AC027164	23705	1-449
HDPTJ79	1860	669209	AC027164	23706	1-398
HDPTJ79	1860	669209	AC024388	23707	1-449
HDPTT20	1864	669029	AC024657	23708	1-354
HDPTU30	1865	691181	AC017051	23709	1-375
HDPTU30	1865	691181	AC068054	23710	1-384
HDPTU30	1865	691181	AC011792	23711	1-384
HDPTU30	1865	691181	AC068054	23712	1-555
HDPTU30	1865	691181	AC011792	23713	1-555
HDPTU66	1866	697690	AL355345	23714	1-383
HDPTU66	1866	697690	AL355345	23715	1-379
HDPTU66	1866	697690	AL355345	23716	1-166
HDPTW90	1868	722699	AL109911	23717	1-744
HDPTW90	1868	722699	AC017113	23718	1-251
HDPTW90	1868	722699	AL109804	23719	1-86 393-695 2345-2611 2985-3904 4603-5446 5467-5608 6481-6582 6976-7234 7899-8638 9094-9354 9548-10236

HDPTW90	1868	722699	AL109804	23720	1-161 684-1524 1611-1868 2185-2484 2550-3044 3158-3539 4120-4422 4682-4784 5155-5227 5763-7414
HDPTW90	1868	722699	AL109804	23721	1-390
HDPUD28	1869	852687	AL136525	23722	1-532
HDPUD28	1869	852687	AL136525	23723	1-722
HDPUF77	1870	769852	AC026160	23724	1-290
HDPUF77	1870	769852	AL096855	23725	1-291
HDPUF77	1870	769852	AC021953	23726	1-290
HDPUF77	1870	769852	AC026160	23727	1-260
HDPUF77	1870	769852	AL096855	23728	1-287
HDPUF77	1870	769852	AC026160	23729	1-338
HDPUF77	1870	769852	AC021953	23730	1-338
HDPUF77	1870	769852	AL096855	23731	1-590
HDPUF77	1870	769852	AC021953	23732	1-260
HDPUG06	1872	968313	AC002091	23733	1-418
HDPUG06	1872	968313	AC002091	23734	1-865
HDPUQ02	1873	973235	AP000876	23735	1-76
HDPUQ02	1873	973235	AP000876	23736	1-624
HDPUQ02	1873	973235	AC006238	23737	1-695
HDPUQ02	1873	973235	AP000876	23738	1-328
HDPUQ02	1873	973235	AC006238	23739	1-155
HDPUQ02	1873	973235	AC006238	23740	1-348
HDPVD09	1875	774165	AC036191	23741	1-936
HDPVE36	1876	706712	AC026290	23742	1-539
HDPVE36	1876	706712	AC026290	23743	1-387
HDPVH13	1878	656711	AL160234	23744	1-6745 8919-9724 10065-11452 13689-13852 14525-14956 16175-16602 22240-22696 22778-23617 27333-27628 27822-28235 28261-28649 35026-35391 37192-42299
HDPVL94	1879	927023	AC026836	23745	1-472
HDPVL94	1879	927023	AC004652	23746	1-472
HDPVL94	1879	927023	AC026836	23747	1-125
HDPVL94	1879	927023	AC004652	23748	1-218
HDPVL94	1879	927023	AC004652	23749	1-278
HDPVR71	1881	740340	AC007899	23750	1-1379
HDPVR71	1881	740340	AC007899	23751	1-9166 9242-9295 10962-11065 12948-13173

					13382-13629 13859-14241 15132-15399 16499-16629 16984-17109 21729-21930 22040-22303 22752-23057 23406-24552 24811-24936 26038-26192 27653-28180
HDPVR71	1881	740340	AC007899	23752	1-469
HDPVU35	1882	852616	AP001011	23753	1-620
HDPVV95	1884	582503	AL161784	23754	1-610
HDPVV95	1884	582503	AC006558	23755	1-592
HDPVV95	1884	582503	AC006558	23756	1-551
HDPVY58	1887	710458	AP000845	23757	1-60 713-1001 3029-3502 3714-3905 4361-4408 4815-4913 5139-5507 9738-9818 11478-11551 15118-15229 16131-16240 17222-17322 17634-17700
HDPVY58	1887	710458	AP000939	23758	1-474
HDPVY58	1887	710458	AP000900	23759	1-68 2504-2576 2670-2730 3941-4002 4656-4943 6971-7444 7724-7844 8303-8344
HDPVY58	1887	710458	AC016128	23760	1-68 2504-2576 2670-2730 3941-4002 4655-4943 6971-7444 7724-7844 8303-8344
HDPVY58	1887	710458	AP000900	23761	1-605
HDPVY58	1887	710458	AP000845	23762	1-668
HDPVY58	1887	710458	AP000900	23763	1-369
HDPVY58	1887	710458	AC016128	23764	1-605
HDPVY58	1887	710458	AC016128	23765	1-369
HDPWD25	1889	677764	AC068342	23766	1-485
HDPWD25	1889	677764	AC068342	23767	1-652
HDPWH10	1892	967692	AL138686	23768	1-198 1395-1602 3068-3198

					5029-5129 5610-5932 6635-6769 8578-8724
HDPWY46	1894	915964	AL121715	23769	1-1698
HDPWY46	1894	915964	AC006160	23770	1-143 2393-2515 2535-3061 3625-4065 4335-4390 4860-5080 5330-5658 5686-6217 7079-7531 7544-7712 7756-7849 7861-8042 9734-9884 10079-10253 10892-11106 11394-11550 12440-13047 13148-13379 14620-15326 16193-16634 18931-19049 22700-22857 25617-25726 27156-27243 27953-28427 29040-29183 29399-29513 29897-30550 36065-36359 36458-36485
HDPWY46	1894	915964	AL121715	23771	1-184
HDPWY46	1894	915964	AC006160	23772	1-81 185-259 314-593
HDPXL59	1897	615543	AC022173	23773	1-5015
HDPXL59	1897	615543	AC022173	23774	1-687 2087-2591
HDPXL68	1898	707532	AC012345	23775	1-1239
HDPXL68	1898	707532	AC007336	23776	1-102 154-709 1343-1705 2219-2444 3080-4317 4329-4391 5952-5985 7106-7477 9086-9138 9307-9520 9710-10192 12626-12960 13344-13537
HDPXL68	1898	707532	AC012345	23777	1-264

					778-1003
HDPXL68	1898	707532	AC007336	23778	1-405
HDPXP04	1899	614895	AC073643	23779	1-864
					1093-1219
					1644-2204
					3839-4211
					4359-5848
					7034-7236
					7267-8025
					8487-9161
					9988-11874
HDPXP04	1899	614895	AC013722	23780	1-709
HDPXP04	1899	614895	AC073643	23781	1-3107
HDPXP04	1899	614895	AC013722	23782	1-675
HDPYC51	1904	919000	AC062010	23783	1-78
					227-1238
					2003-2163
					2326-2651
					2735-7770
HDPYC51	1904	919000	AC062010	23784	1-139
HDPYD58	1905	726288	AL034550	23785	1-107
					122-1264
					1513-4478
HDPYD58	1905	726288	AL034550	23786	1-147
					445-569
					1012-1217
					5637-5681
HDPYF79	1908	774272	AP001139	23787	1-512
HDPYF79	1908	774272	AP000767	23788	1-518
HDPYF79	1908	774272	AP001139	23789	1-422
HDPYF79	1908	774272	AP000767	23790	1-422
HDPYH79	1909	886845	AC016364	23791	1-254
					426-776
					841-1031
					2431-2480
					4350-4646
HDPYH79	1909	886845	AC016364	23792	1-151
HDPYH79	1909	886845	AC016364	23793	1-356
HDQDU40	1910	791340	AC020769	23794	1-797
HDQDU40	1910	791340	AC010550	23795	1-797
HDQDU40	1910	791340	AC026461	23796	1-797
HDQDU40	1910	791340	AC020769	23797	1-335
HDQDU40	1910	791340	AC010550	23798	1-335
HDQDU40	1910	791340	AC026461	23799	1-335
HDQEA94	1911	793378	AC013264	23800	1-607
HDQEA94	1911	793378	AC013264	23801	1-852
HDQEF04	1914	927024	AL354703	23802	1-533
					905-1859
					2773-2990
HDQEF04	1914	927024	AL022157	23803	1-533
					905-1859
HDQEF04	1914	927024	AL354703	23804	1-682
					1844-5037
					5086-7890
					11590-12249
					13169-13297

					13788-17895 21052-21506 25344-25575 26001-26106 28169-28467 29125-29387 29633-29805 34329-34653 35174-35317 35335-35981 36111-36859 40364-42738
HDQEF04	1914	927024	AL022157	23805	1-2375
HDQEF89	1915	786393	AC012246	23806	1-787 1151-1661
HDQEN22	1917	931041	AC016175	23807	1-519
HDQEN22	1917	931041	AL357494	23808	1-522
HDQEN22	1917	931041	AC044869	23809	1-522
HDQEN22	1917	931041	AL357494	23810	1-570
HDQEN22	1917	931041	AC044869	23811	1-570
HDQEN22	1917	931041	AL357494	23812	1-976
HDQEN22	1917	931041	AC044869	23813	1-975
HDQES62	1918	792766	AC020655	23814	1-1781
HDQES62	1918	792766	AC020655	23815	1-425
HDQES62	1918	792766	AC020655	23816	1-461
HDQEU92	1923	973212	AL359643	23817	1-749
HDQEU92	1923	973212	AL359643·	23818	1-269
HDQFA01	1924	924539	AC048348	23819	1-2706 3028-5575
HDQFA01	1924	924539	AC010858	23820	1-3348 3670-6216
HDQFA01	1924	924539	AC048348	23821	1-175
HDQFA01	1924	924539	AC010858	23822	1-421
HDQFC85	1925	783797	AC022092	23823	1-53 237-2028
HDQFC85	1925	783797	AC022092	23824	1-274
HDQFC85	1925	783797	AC022092	23825	1-390
HDQFK04	1926	926758	AL353756	23826	1-733
HDQFK04	1926	926758	AL353756	23827	1-741
HDQFU11	1927	966106	AL161670	23828	1-347
HDQFU11	1927	966106	AL161670	23829	1-492
HDQGB04	1929	852577	AL354956	23830	1-563
HDQGB04	1929	852577	AL162405	23831	1-563
HDQGB04	1929	852577	AL162405	23832	1-314
HDQGB04	1929	852577	AL354956	23833	1-314
HDQGG01	1931	974439	AC017113	23834	1-227
HDQGG01	1931	974439	AL109804	23835	1-227
HDQGG01	1931	974439	AC017113	23836	1-84
HDQGG01	1931	974439	AL109804	23837	1-72 99-559 895-1072
HDQGK63	1932	875920	AC007395	23838	1-647
HDQGK63	1932	875920	AC007395	23839	1-1091 1508-1623 2704-2856 3451-3825

					5296-5414 5510-5586
HDQGK93	1933	791744	AL357082	23840	1-220 1361-2327
HDQGK93	1933	791744	AL121933	23841	1-220 1361-2327
HDQGK93	1933	791744	AL357082	23842	1-112
HDQGK93	1933	791744	AL357082	23843	1-185
HDQGK93	1933	791744	AL121933	23844	1-185
HDQGK93	1933	791744	AL121933	23845	1-112
HDQGR80	1935	880654	AC018781	23846	1-523
HDQGR80	1935	880654	AC018781	23847	1-359
HDQGR80	1935	880654	AC018781	23848	1-417 520-716 1315-1862
HDQGT70	1936	909848	AC013374	23849	1-175
HDQHF10	1937	963485	AL049840	23850	1-801
HDQHF10	1937	963485	AL049840	23851	1-788
HDQHF10	1937	963485	AL049840	23852	1-604
HDQHK04	1938	926988	AC022966	23853	1-352
HDQHK04	1938	926988	AC022966	23854	1-55 318-717
HDQHO04	1940	926976	AC013279	23855	1-51 432-923 986-1307
HDQHO04	1940	926976	AC013279	23856	1-101 358-707 1114-1407 1978-2207 2333-2688 3656-3937 5052-5245 5338-5491
HDQHO04	1940	926976	AC013279	23857	1-465
HDQHO07	1941	852555	AC005390	23858	1-476
HDQHP44	1942	811790	AC034259	23859	1-93 169-689 881-2081 2249-3269
HDQHP44	1942	811790	AC034259	23860	1-415
HDQHQ83	1943	973129	AC016776	23861	1-502
HDQHQ83	1943	973129	AC011802	23862	1-502
HDQHQ83	1943	973129	AC011802	23863	1-126
HDQHZ22	1946	879416	AL158048	23864	1-730 1351-1559 1659-2178
HDQHZ22	1946	879416	AL158048	23865	1-521
HDQIH19	1947	974391	AC040991	23866	1-110
HDQIH19	1947	974391	AL365436	23867	1-552
HDQIH19	1947	974391	AC002351	23868	1-82 959-2236
HDQIH19	1947	974391	AL365436	23869	1-634
HDQIH19	1947	974391	AC002351	23870	1-115
HDQIJ11	1948	966021	AP002437	23871	1-540
HDQIJ11	1948	966021	AC005849	23872	1-540
HDQMA71	1949	926528	AL137119	23873	1-116

					360-698 767-1137 1616-1763 3805-7359
HDQMA71	1949	926528	AL138688	23874	1-116 360-698 767-1137 1616-1763 3805-7359
HDQMA71	1949	926528	AL137119	23875	1-1636
HDQMA71	1949	926528	AL137119	23876	1-367 871-1388
HDQMA71	1949	926528	AL138688	23877	1-367 871-1389
HDQMA71	1949	926528	AL138688	23878	1-1635
HDTAQ55	1955	728772	AC069304	23879	1-367
HDTAQ55	1955	728772	AC069304	23880	1-94
HDTAQ55	1955	728772	AC069304	23881	1-300
HDTBF27	1957	683389	AC005021	23882	1-1276 2698-3169 3411-4696 4739-5868 6038-6892 7133-8106 9050-9660 10094-10596 11421-12539 12909-13168 13283-15173
HDTBF27	1957	683389	AC005021	23883	1-1198
HDTBF27	1957	683389	AC005021	23884	1-682
HDTBL45	1958	785534	AL159163	23885	1-62 3028-3159 3731-4202 5811-5871 6104-6243 6700-6969 7128-7415 7633-9533 10360-10492 11492-11681 12072-12484 13542-14028 14071-14553 18412-18511 18529-19185 20422-21507 22310-22692 22758-22889
HDTBL45	1958	785534	AL159163	23886	1-869
HDTBQ34	1963	703446	AL359539	23887	1-450
HDTBQ47	1964	720298	AC011934	23888	1-777 1512-1768 2556-3544 3903-4196 4251-4362 5124-6394

					6496-6623
					6795-7436
					7955-7995
					8050-9669
HDTBQ47	1964	720298	AC025287	23889	1-777
					1512-1768
					2556-3544
					3903-4196
					4251-4362
					5124-6393
					6497-6616
HDTBQ47	1964	720298	AC025287	23890	1-642
HDTBQ47	1964	720298	AC011934	23891	1-166
HDTBQ47	1964	720298	AC025287	23892	1-901
					1782-1942
					2893-3370
					3703-3910
					4501-5302
					5642-5941
					7793-7900
HDTBQ56	1965	799840	AL353585	23893	1-1637
HDTBQ56	1965	799840	AP001456	23894	1-105
					460-934
					987-2790
HDTBQ56	1965	799840	AL353585	23895	1-329
HDTBQ56	1965	799840	AP001456	23896	1-329
HDTBQ56	1965	799840	AP001456	23897	1-926
					984-1461
HDTBQ80	1966	775420	AF131215	23898	1-1196
HDTBQ80	1966	775420	AF131215	23899	1-376
HDTBQ80	1966	775420	AF131215	23900	1-93
HDTBR15	1967	660236	AC002528	23901	1-57
					397-949
					2172-2221
					2513-2567
					2666-3049
					3100-3151
					3650-3751
					3894-3938
					4053-4152
					4572-4626
					4750-4858
					5219-5273
					5385-5485
					5546-5991
					6398-6451
					6914-7013
					7413-7467
					8019-8074
					8221-8278
					8546-8606
					9555-9600
					10732-10869
					11187-11723
					11794-12162
					12827-12883
					13828-13882

					14430-14617 14720-14775 14871-17449 18164-18414 18417-18774 19435-19563 19940-19996 20077-20189 20286-20715 20752-21283 21304-21393 21510-22218 22619-23419 23516-23787 24297-25576
HDTBX47	1972	719530	AC004056	23902	1-439
HDTBX47	1972	719530	AC004056	23903	1-629
HDTCC60	1974	740350	AC068884	23904	1-233 1616-1733 2978-3214 5541-5902 6274-6412 7877-8000 8309-8439 8822-8970 9053-9454
HDTCC60	1974	740350	AC016772	23905	1-451 1832-1949 3194-3430 5758-6119 6492-6630 8093-8216 8525-8655 9038-9186 9269-9670 11329-11739 13845-14287 14511-15318 15966-16082 16738-16920
HDTCC60	1974	740350	AC068884	23906	1-411
HDTCC60	1974	740350	AC068884	23907	1-106
HDTCC60	1974	740350	AC016772	23908	1-446
HDTCC60	1974	740350	AC016772	23909	1-129
HDTDC23	1976	675331	AC023255	23910	1-531
HDTDC23	1976	675331	AC023255	23911	1-351
HDTDC23	1976	675331	AC023255	23912	1-84
HDTDD49	1978	799872	AC018754	23913	1-2142
HDTDG42	1979	713588	AL359257	23914	1-468
HDTDG42	1979	713588	AL157767	23915	1-468
HDTDG42	1979	713588	AC001226	23916	1-1207 1472-2062 2442-3063 5126-5225 5365-5717 6339-6508 7155-7264

					8329-8796
					10898-11113
					12329-12437
					12505-12879
					13365-13481
					13562-13753
					14866-14972
					16515-16647
					17008-17135
					17940-18041
					19171-19943
					19959-20617
					21304-21548
					22923-23211
					23912-24173
					24820-25062
					25086-25211
					25973-26059
HDTDG42	1979	713588	AC001226	23917	1-86
HDTDG42	1979	713588	AC001226	23918	1-303
HDTDP37	1982	571417	AC069475	23919	1-563
HDTDP37	1982	571417	AL137060	23920	1-563
HDTDP37	1982	571417	AC069475	23921	1-556
HDTDP37	1982	571417	AC069475	23922	1-266
HDTDP37	1982	571417	AL137060	23923	1-556
HDTDP37	1982	571417	AL137060	23924	1-266
HDTEJ30	1985	915445	AC008277	23925	1-211
					908-1056
					1544-2187
					2750-2851
					3477-6885
					6961-7284
					7519-8101
					9152-10553
HDTEJ30	1985	915445	AC008277	23926	1-608
					725-1580
HDTFC55	1988	731397	AC012181	23927	1-104
					931-1123
					1273-1613
					1845-1972
					2088-2159
					2451-2495
					2880-3303
					3565-3864
					4300-4434
					5316-5446
					6668-6933
					7117-8021
					8926-9324
					9349-9743
					11136-11991
					12090-12673
HDTFD13	1989	835596	AC027296	23928	1-95
					1633-2044
HDTFD13	1989	835596	AC012020	23929	1-95
					1634-2045
HDTFD13	1989	835596	AC012340	23930	1-95

					1633-2044
HDTFD13	1989	835596	AC011318	23931	1-95
					1634-2045
HDTFD13	1989	835596	AC027296	23932	1-694
HDTFD13	1989	835596	AC012020	23933	1-694
HDTFD13	1989	835596	AC012340	23934	1-356
HDTFD13	1989	835596	AC027296	23935	1-356
HDTFD13	1989	835596	AC012020	23936	1-356
HDTFD13	1989	835596	AC012340	23937	1-694
HDTFD13	1989	835596	AC011318	23938	1-694
HDTFD13	1989	835596	AC011318	23939	1-356
HDTFE23	1990	675407	AC009719	23940	1-501
					642-2475
HDTFE23	1990	675407	AL137159	23941	1-977
HDTFE23	1990	675407	AC009719	23942	1-724
HDTFE23	1990	675407	AC009719	23943	1-319
HDTFE23	1990	675407	AL137159	23944	1-501
					642-1468
HDTFE23	1990	675407	AL137159	23945	1-724
HDTFP51	1992	924898	AL365325	23946	1-550
					4210-4334
					5155-6485
					6716-7336
					7560-7700
					7748-8957
HDTFP51	1992	924898	AL135798	23947	1-126
					200-869
					2585-2711
					3644-4228
					5843-6392
					10052-10182
					10998-12328
					12559-13179
					13403-13543
					13591-14801
HDTFP51	1992	924898	AL365325	23948	1-585
HDTFP51	1992	924898	AL135798	23949	1-388
HDTGI15	1995	953336	AP001940	23950	1-1096
HDTGI15	1995	953336	AP001940	23951	1-395
HDTGI15	1995	953336	AP001940	23952	1-658
HDTGP93	2000	724545	AC025308	23953	1-525
HDTGP93	2000	724545	AL132780	23954	1-577
					808-1339
					1943-3536
					3623-5596
					6696-7047
					7070-7208
					7303-7460
					7983-9146
					9284-9394
					9579-10264
					10376-10478
					11078-11318
					12084-12997
HDTGP93	2000	724545	AL132780	23955	1-93
					1639-1884

HDTGP93	2000	724545	AL132780	23956	1-168
HDTGW21	2001	785047	AC021705	23957	1-29
					360-495
					955-1079
					1492-1559
					1793-1954
					2109-2237
					8156-8313
					9088-9598
					9667-11499
					12012-12782
					13030-13154
					13230-13338
					13623-13713
					13851-13961
					14179-14392
					14455-14717
					14747-14846
					15926-17967
HDTGW21	2001	785047	AC021705	23958	1-304
HDTHE95	2005	795180	AC022239	23959	1-872
HDTHE95	2005	795180	AF131216	23960	1-655
HDTHE95	2005	795180	AC022239	23961	1-643
HDTHE95	2005	795180	AF131216	23962	1-643
HDTHK91	2006	789790	AC004611	23963	1-251
					1382-1472
					5771-6133
					6295-6359
					6442-6650
					7826-8347
					9254-9316
					10212-12376
					12559-12787
					15502-15783
					16110-16487
					17335-17665
					17840-17998
					18083-18197
					19251-19627
					20272-20583
					20698-20973
					22520-22651
					23894-23987
					24090-24439
					25193-27420
					27632-28282
					28565-29505
					29889-30034
					30439-31506
					32363-32503
					33275-33618
					33760-33872
					33926-34344
					34798-34914
					35011-35078
					35152-35799
HDTHK91	2006	789790	AC004611	23964	1-104

HDTHK91	2006	789790	AC004611	23965	1-88 1627-1799 3095-3345
HDTHM43	2007	851854	AC009093	23966	1-513
HDTHM43	2007	851854	AC007615	23967	1-513
HDTHM43	2007	851854	AC009093	23968	1-438
HDTHM43	2007	851854	AC009093	23969	1-100
HDTHM43	2007	851854	AC007615	23970	1-374
HDTHO45	2008	799861	AC005478	23971	1-454
HDTHO45	2008	799861	AC002073	23972	1-1154
HDTHO45	2008	799861	AC005478	23973	1-475
HDTHO45	2008	799861	AC005478	23974	1-532
HDTHO45	2008	799861	AC002073	23975	1-475
HDTHQ55	2010	799859	AC006583	23976	1-1110 3129-3175 4358-5280 8007-8131 10196-10467 10717-10950 11380-11499 11755-12606 12957-14294
HDTHQ55	2010	799859	AC006583	23977	1-677
HDTHW16	2011	799839	AC025306	23978	1-623
HDTHW16	2011	799839	AL161725	23979	1-623
HDTHW16	2011	799839	AC025306	23980	1-265
HDTHW16	2011	799839	AL161725	23981	1-265
HDTIC48	2014	828038	AL365275	23982	1-420
HDTIC48	2014	828038	AL132874	23983	1-420
HDTIC48	2014	828038	AL365275	23984	1-476
HDTIC48	2014	828038	AL132874	23985	1-476
HDTIC74	2015	838780	AC023030	23986	1-154
HDTIC74	2015	838780	AP000671	23987	1-149
HDTIC74	2015	838780	AC068010	23988	1-131
HDTIC74	2015	838780	AC013725	23989	1-140
HDTIC74	2015	838780	AC023221	23990	1-129
HDTIC74	2015	838780	AC023221	23991	1-130
HDTID61	2016	908946	AC021848	23992	1-2785
HDTID61	2016	908946	AC022150	23993	1-242 284-1036 1075-1567 1811-2060 2222-2326 3975-6759
HDTID61	2016	908946	AC021848	23994	1-194
HDTID61	2016	908946	AC022150	23995	1-193
HDTIG34	2019	799851	AC018795	23996	1-417
HDTIG34	2019	799851	AC025730	23997	1-417
HDTIM13	2021	926952	AC024318	23998	1-66 323-745 1209-2165
HDTIM13	2021	926952	AC012661	23999	1-62 322-742 1086-2163
HDTIM13	2021	926952	AL137861	24000	1-66 1206-2162

HDTIM13	2021	926952	AC012661	24001	1-125
HDTIM13	2021	926952	AL137861	24002	1-103
HDTIM13	2021	926952	AL137861	24003	1-205
HDTIR88	2022	931122	AC019304	24004	1-397 526-3293
HDTIR88	2022	931122	AC019304	24005	1-270
HDTIV22	2023	883109	AC067854	24006	1-629
HDTIV22	2023	883109	AC067854	24007	1-642
HDTIV22	2023	883109	AC016797	24008	1-655
HDTIV22	2023	883109	AC016797	24009	1-2215
HDTIV37	2024	799867	AL356864	24010	1-945
HDTIV37	2024	799867	AC006121	24011	1-965
HDTIV37	2024	799867	AL356864	24012	1-253
HDTIV37	2024	799867	AC006121	24013	1-253
HDTIV37	2024	799867	AC006121	24014	1-580
HDTIV62	2025	799835	AL353688	24015	1-747
HDTIV62	2025	799835	AL353688	24016	1-318
HDTIW03	2026	922928	AC073626	24017	1-481
HDTIW03	2026	922928	AC003992	24018	1-481
HDTIX57	2027	799828	AC026124	24019	1-1471
HDTIX57	2027	799828	AC026124	24020	1-247
HDTIY26	2029	799855	AC021256	24021	1-466
HDTIY26	2029	799855	AL354808	24022	1-466
HDTIY26	2029	799855	AC021256	24023	1-454
HDTIY26	2029	799855	AL354808	24024	1-528
HDTIY69	2031	799857	AC017100	24025	1-69 3377-3919 4201-4720 5258-5569
HDTIZ44	2032	925574	AC027521	24026	1-581
HDTIZ44	2032	925574	AC068438	24027	1-115
HDTIZ44	2032	925574	AC023992	24028	1-250
HDTIZ44	2032	925574	AC004687	24029	1-1627
HDTJA54	2033	799856	AC073289	24030	1-80
HDTJI16	2035	918631	AL096814	24031	1-1390
HDTJI16	2035	918631	AL096814	24032	1-748
HDTJI16	2035	918631	AL096814	24033	1-286
HDTJJ02	2037	913787	AC068557	24034	1-406 489-614
HDTJJ02	2037	913787	AC068557	24035	1-736
HDTJJ55	2038	856558	AC024014	24036	1-1341
HDTJJ55	2038	856558	AC010865	24037	1-1341
HDTJJ55	2038	856558	AC024014	24038	1-336
HDTJJ55	2038	856558	AC024014	24039	1-254
HDTJJ55	2038	856558	AC010865	24040	1-254
HDTJJ55	2038	856558	AC010865	24041	1-336
HDTJK81	2039	851897	AL359388	24042	1-96 104-735 991-1263 1283-1753 1800-2491 2558-2590 2811-3101 3203-3336 3510-3906 3949-4073

					4388-4491 4553-5335
HDTJK81	2039	851897	AL355490	24043	1-56 102-575 663-1294 1324-2506 2599-2777 4750-5484 6032-6502 6549-7240 7307-7431 7560-7850 7952-8085 8259-8658
HDTJK81	2039	851897	AL359388	24044	1-480
HDTJK81	2039	851897	AL355490	24045	1-148
HDTJK81	2039	851897	AL359388	24046	1-259
HDTJQ18	2040	805597	AL160283	24047	1-560
HDTJQ18	2040	805597	AC024457	24048	1-560
HDTJQ18	2040	805597	AL354793	24049	1-560
HDTJQ18	2040	805597	AL160283	24050	1-6162
HDTJQ18	2040	805597	AC024457	24051	1-818
HDTJQ18	2040	805597	AL354793	24052	1-6161
HDTJT70	2041	918563	AL356155	24053	1-1104
HDTJT70	2041	918563	AL356155	24054	1-310
HDTJU06	2042	934242	AC072049	24055	1-451
HDTJU06	2042	934242	AC072049	24056	1-595
HDTKP88	2043	799865	AC019149	24057	1-611
HDTKP88	2043	799865	AC010238	24058	1-611
HDTKQ14	2044	886936	AL359542	24059	1-140 1249-4264
HDTKQ14	2044	886936	AL023653	24060	1-140 1249-4264
HDTKQ14	2044	886936	AL359542	24061	1-499
HDTKQ14	2044	886936	AL359542	24062	1-145
HDTKQ14	2044	886936	AL023653	24063	1-499
HDTKU06	2046	934269	AC004492	24064	1-821
HDTKU06	2046	934269	AC004492	24065	1-333
HDTKU06	2046	934269	AC004492	24066	1-336
HDTKZ74	2048	799842	AC006378	24067	1-671 1189-1797 2615-3146 3490-4493
HDTKZ74	2048	799842	AC006378	24068	1-212
HDTLA08	2049	958307	AC016774	24069	1-594 1023-1155 1772-2162 2448-2739 2975-3438 3681-4096 4814-4865 5289-5389 5443-5627 7000-7166 7396-8248 8876-9167

					10516-10689
					11193-11857
					12200-12372
					12455-12745
					13874-14148
					14398-14684
					15738-15861
					16053-16243
					17510-17938
					18019-18179
					18259-18528
					18587-18676
					18960-19577
					19606-20010
					20036-21667
					22067-26217
					26261-26631
					26869-27524
					27631-28143
					28212-28560
					29119-29156
					29687-30245
					30256-31203
					31798-33971
HDTLA08	2049	958307	AC016774	24070	1-406
HDTLA08	2049	958307	AC016774	24071	1-138
					467-569
					810-930
					1056-1149
					1553-1686
					1774-2544
HDTLA53	2050	851826	AC026003	24072	1-654
HDTLB55	2051	905872	AC022835	24073	1-179
HDTLB55	2051	905872	AC012476	24074	1-544
					746-1181
					1372-1460
HDTLB55	2051	905872	AC012476	24075	1-1040
HDTLH19	2053	959932	AC021126	24076	1-616
HDTLH19	2053	959932	AC023843	24077	1-617
HDTLH19	2053	959932	AC021126	24078	1-658
HDTLH19	2053	959932	AC023843	24079	1-658
HDTLK51	2054	851846	AC036158	24080	1-541
HDTLK51	2054	851846	AC036158	24081	1-373
HDTLK51	2054	851846	AC036158	24082	1-550
HDTLP72	2056	799837	AP000224	24083	1-357
HDTLP72	2056	799837	AP000086	24084	1-357
HDTLP72	2056	799837	AP000138	24085	1-357
HDTLP72	2056	799837	AP000224	24086	1-101
HDTLP72	2056	799837	AP000086	24087	1-101
HDTLP72	2056	799837	AP000138	24088	1-101
HDTLX24	2057	799838	AL049631	24089	1-681
HDTLX24	2057	799838	AL049631	24090	1-143
HDTMG55	2058	959633	AC005995	24091	1-255
					1217-1521
					1569-1902
					3440-4001
					4587-4708

					5011-5126
					5497-5607
					5812-6103
					7031-7483
					8561-8841
					8882-8998
					9639-10243
					11202-11914
					12177-12682
					12995-13754
					13878-15600
					15960-16364
					16443-16808
					17155-17437
					17473-17712
					19017-19447
					19665-20122
					24357-24399
					24406-24611
					25991-26515
					26858-27298
					27327-27873
					28118-28509
					29298-29419
					31529-31971
					33347-33460
					33681-33747
HDTMG55	2058	959633	AC005995	24092	1-349
					372-625
					1206-1513
					1681-1773
					2284-2424
					3365-3588
					3603-3980
					3990-4102
					5152-5583
					5901-6195
					6518-6795
HDTMH14	2059	799847	AC022016	24093	1-438
HDTMH14	2059	799847	AF067844	24094	1-438
HDTMH14	2059	799847	AC022016	24095	1-423
HDTMH14	2059	799847	AF067844	24096	1-422
HEIAA07	2060	920257	AC002091	24097	1-295
HEIAA07	2060	920257	AC003695	24098	1-295
HEIAA07	2060	920257	AC002091	24099	1-109
HEIAA07	2060	920257	AC003695	24100	1-161
					175-268
HEIAA07	2060	920257	AC003695	24101	1-194
HEIAA38	2061	907594	AL160172	24102	1-483
HEIAA38	2061	907594	AL162615	24103	1-483
HEIAA38	2061	907594	AL160172	24104	1-121
HEIAA38	2061	907594	AL162615	24105	1-487
HEIAA38	2061	907594	AL160172	24106	1-348
HEIAA38	2061	907594	AL162615	24107	1-349
HEIAD05	2066	932397	AC024384	24108	1-635
HEIAD05	2066	932397	AC024384	24109	1-92
HEIAG38	2069	577308	AJ011929	24110	1-542

HEIAG38	2069	577308	AJ011929	24111	1-314
HEIAG38	2069	577308	AJ011929	24112	1-101
HEIAH70	2070	757174	AL158079	24113	1-373
HEIAH70	2070	757174	AL158079	24114	1-306
HEIAH70	2070	757174	AL158079	24115	1-104
HEIAL53	2071	466308	AC009522	24116	1-445
HEIAL53	2071	466308	AC008035	24117	1-440
HEIAL53	2071	466308	AC073860	24118	1-445
HEIAL53	2071	466308	AC068641	24119	1-445
HEIAL53	2071	466308	AC009522	24120	1-145
HEIAL53	2071	466308	AC008035	24121	1-494
HEIAL53	2071	466308	AC009522	24122	1-945 955-1445
HEIAL53	2071	466308	AC073860	24123	1-945 955-1448
HEIAL53	2071	466308	AC073860	24124	1-634
HEIAL53	2071	466308	AC068641	24125	1-632
HEIAL53	2071	466308	AC068641	24126	1-494
HEIAO01	2072	916438	AL136141	24127	1-407
HEIAO01	2072	916438	AC006241	24128	1-293
HEIAO01	2072	916438	AL136141	24129	1-119
HEIAO01	2072	916438	AC006241	24130	1-119
HEIAO01	2072	916438	AL136141	24131	1-321
HEIAO01	2072	916438	AC006241	24132	1-321
HEIAO14	2073	851197	AC012447	24133	1-341
HEIAO48	2074	917281	AC002310	24134	1-347 931-1308 2036-2538 3545-3642 3751-3821 5240-5903 6936-7448 7570-7699 8678-9139 9490-9594 9661-9809 12051-12518 14662-14855 17326-17977 19068-19269 20443-20931 20981-21094 21276-21574 22358-23106 23302-23470 24336-24824 25370-25610 27193-27494 27598-27751 28469-28647 28925-29307 29669-29856 30405-30709 31913-32336 32443-33001 33292-33746 34594-34880

					34999-35142
					35464-35756
					36209-36466
					36552-36796
					38647-38759
					39169-39245
					39335-39427
					39985-40414
					42057-42124
					42567-42656
					42686-42802
					43300-43395
					44104-44436
					45249-45371
					45934-45989
					46060-46538
					46866-47692
					48076-48257
					48722-49238
					49462-51469
HEIAT36	2077	576598	AP000562	24135	1-4517
HEIAT36	2077	576598	AP000763	24136	1-6366
HEIAT36	2077	576598	AP000562	24137	1-612
HEIAT36	2077	576598	AP000763	24138	1-612
HEIAT36	2077	576598	AP000763	24139	1-391
HEIAV20	2079	523766	AL117335	24140	1-1513
HEIAV20	2079	523766	AL117335	24141	1-246
HEIAV20	2079	523766	AL117335	24142	1-100
HEICC82	2080	781171	AC015940	24143	1-1855
					4137-4368
					4374-4577
HEICC82	2080	781171	AC008088	24144	1-232
					238-417
HEOAB19	2081	939448	AC021320	24145	1-77
					174-442
					744-1203
					1300-1488
					1620-2168
HEOAB19	2081	939448	AC018510	24146	1-77
					174-442
					744-1203
					1300-1488
					1620-2168
HEOAB19	2081	939448	AC021320	24147	1-784
HEOAB19	2081	939448	AC018510	24148	1-784
HEOAB19	2081	939448	AC018510	24149	1-278
HEOAD29	2082	690762	AC025317	24150	1-493
HEOAD29	2082	690762	AL163853	24151	1-493
HEOAD29	2082	690762	AC025317	24152	1-896
					1016-1393
					1501-1695
					1739-2250
					3614-4106
					5239-5458
					5952-6075
					6209-6653
					8611-8733

					8823-9064 9854-9963 11895-12049
HEOAD29	2082	690762	AL163853	24153	1-896 1501-1695 1739-2247 3609-4101 5234-5453 5947-6070 6201-6645 8607-8729 8819-9060 9783-9966 11073-11160 11882-12036
HEOMC23	2083	850094	AF276255	24154	1-107 198-359 2503-3020 5027-6174
HEOMC23	2083	850094	AC015709	24155	1-107 198-359 2503-3020 5026-6173
HEOMG01	2086	916672	AL356275	24156	1-510
HEOMG01	2086	916672	AL035091	24157	1-510
HEOMG25	2089	678190	AC012568	24158	1-1906
HEOMG25	2089	678190	AC012568	24159	1-343
HEOMG25	2089	678190	AC012568	24160	1-342
HEOMG32	2090	699343	AC005247	24161	1-501
HEOMG48	2091	963338	AL132713	24162	1-93 865-1142 2377-2480 2527-2651 3605-3679 3889-4012 4456-5235 5357-5462 6435-6507 6829-7463 7920-8317 8402-8712 8719-9216 9298-10091
HEOMG48	2091	963338	AL132713	24163	1-577
HEOMH77	2095	721342	AC010864	24164	1-406 720-1139 1185-1639 1930-3574 3677-4305 4317-4673 4768-5182 6817-6911
HEOML13	2098	893874	AC018556	24165	1-331
HEOML13	2098	893874	AC026411	24166	1-845
HEOML13	2098	893874	AC020765	24167	1-845
HEOML13	2098	893874	AC008956	24168	1-893
HEOML13	2098	893874	AC002425	24169	1-893

HEOML13	2098	893874	AC002544	24170	1-866
HEOML13	2098	893874	AC026411	24171	1-967 1052-1321 1408-1925
HEOML13	2098	893874	AC020765	24172	1-316
HEOML13	2098	893874	AC020765	24173	1-967 1052-1321 1408-1925
HEOML13	2098	893874	AC008956	24174	1-967 1049-1321 1405-1934
HEOML13	2098	893874	AC008956	24175	1-316
HEOML13	2098	893874	AC002425	24176	1-967 1049-1321 1405-1934
HEOML13	2098	893874	AC002544	24177	1-374
HEOML13	2098	893874	AC002425	24178	1-365
HEOML13	2098	893874	AC002544	24179	1-967 1049-1321 1405-1934
HEOML73	2099	724043	AL139174	24180	1-587
HEOML73	2099	724043	AL138968	24181	1-598
HEOML73	2099	724043	AL138968	24182	1-938
HEOML73	2099	724043	AL138968	24183	1-418 658-837
HEOMM10	2100	964736	AP000609	24184	1-401
HEOMM10	2100	964736	AP000609	24185	1-295
HEOMO43	2102	855659	AL161644	24186	1-208 402-658 1788-3138 3382-4054 4064-4218 4473-4793
HEOMO43	2102	855659	AL357673	24187	1-189 2555-2720 2845-3157 5172-5983 6195-6402 6516-7219 7987-9337 9581-10253 10263-10417 10672-10992
HEOMO43	2102	855659	AL161644	24188	1-812
HEOMO43	2102	855659	AL161644	24189	1-503
HEOMO43	2102	855659	AL357673	24190	1-106
HEOMO43	2102	855659	AL357673	24191	1-503
HEOMQ17	2106	851049	AL357126	24192	1-662
HEOMQ17	2106	851049	AL357126	24193	1-338
HEOMQ75	2107	965882	AL033522	24194	1-570
HEOMQ75	2107	965882	AL355489	24195	1-570
HEOMQ75	2107	965882	AL033522	24196	1-101
HEOMQ75	2107	965882	AL355489	24197	1-101
HEOMR13	2109	657317	AL353586	24198	1-657
HEOMR13	2109	657317	AL353586	24199	1-119
HEOMR57	2110	575739	AL162471	24200	1-625

					1149-1289 1344-2314 2746-3349
HEOMR57	2110	575739	AL159140	24201	1-625 1149-1289 1344-2314 2746-3349
HEOMR57	2110	575739	AL162471	24202	1-1451 1533-1657 2491-2772 4629-4797 6360-6535 7936-8321 8800-9822
HEOMR57	2110	575739	AL159140	24203	1-1028 1828-3404 3486-3610 4440-4721 6578-6746 8314-8489 9889-10274 10753-11774
HEOMR96	2112	855652	AL079335	24204	1-280 367-525 1457-2099 2163-2604 3040-3273 4162-4288
HEOMR96	2112	855652	AL365505	24205	1-643
HEOMR96	2112	855652	AL079335	24206	1-239
HEOMR96	2112	855652	AL365505	24207	1-442
HEOMR96	2112	855652	AL365505	24208	1-159
HEOMS92	2116	735720	AC024345	24209	1-92 1046-1626 2557-3351 3624-4072 4177-4477 4547-5839
HEOMS92	2116	735720	AC024350	24210	1-92 1046-1626 2557-3351 3624-4072 4177-4477 4547-5839
HEOMS92	2116	735720	AC024350	24211	1-437
HEOMT79	2118	936687	AC002554	24212	1-390 1317-1610 4951-5008 7156-7227 7893-8173 8322-8394 9299-9364 11051-11456
HEOMT79	2118	936687	AC002554	24213	1-2633
HEOMU07	2119	953475	AC023054	24214	1-2028 2303-2559 3710-4852

					4895-5386 5482-5939
HEOMU07	2119	953475	AC025260	24215	1-346 464-1929 1959-2034 2324-2565 3720-4030 4057-4420
HEOMU07	2119	953475	AC026109	24216	1-2026 2316-2557 3712-4412 5528-5763
HEOMU07	2119	953475	AC012085	24217	1-2027 2302-2558 3709-4851 4894-5385 5481-5938 6438-6765 9586-9679 9773-10002 10477-11212
HEOMU07	2119	953475	AC012012	24218	1-2027 2302-2558 3709-4851 4894-5385 5481-5938 6438-6765
HEOMU07	2119	953475	AC012085	24219	1-167
HEOMU07	2119	953475	AC026109	24220	1-305
HEOMU07	2119	953475	AC012085	24221	1-322
HEOMU07	2119	953475	AC012012	24222	1-398
HEOMU07	2119	953475	AC012012	24223	1-322
HEOMV16	2123	958211	AC022285	24224	1-316 721-1251
HEOMV16	2123	958211	AC025590	24225	1-313 718-1248
HEOMV16	2123	958211	AC022285	24226	1-385 1598-1999
HEOMV16	2123	958211	AC025590	24227	1-385 1598-1999
HEOMV54	2124	866586	AL355806	24228	1-146 401-542 571-671 2269-4170
HEOMV54	2124	866586	AL355806	24229	1-141
HEOMW26	2126	418125	AC036212	24230	1-374
HEOMW26	2126	418125	AC018881	24231	1-374
HEOMW26	2126	418125	AC018881	24232	1-534 701-1416
HEOMW83	2127	659808	AC009423	24233	1-350
HEOMW83	2127	659808	AC026347	24234	1-397
HEOMW83	2127	659808	AC009760	24235	1-397
HEOMW83	2127	659808	AC026347	24236	1-266
HEOMW83	2127	659808	AC009760	24237	1-283
HEOMW83	2127	659808	AC009760	24238	1-749
HEOMX61	2129	958233	AL357623	24239	1-96

					319-425 1410-2377 2459-3292 3411-3556 3879-4727 4901-5185 5575-7394 7446-7725 7791-10580
HEOMX61	2129	958233	AL354705	24240	1-94 319-425 1537-2377 2459-3292 3879-4726
HEOMX61	2129	958233	AL354705	24241	1-285
HEOND75	2133	918209	AC007000	24242	1-375
HEONJ79	2134	506226	AL355924	24243	1-333
HEONJ79	2134	506226	AL355924	24244	1-696
HEONM30	2136	692726	AC007032	24245	1-163 511-831 1581-1856 1918-2584 2587-2776 3944-4761 4855-7799 7849-8034 8580-8847 9303-10448 11604-12183 12772-13476 13563-13793 14201-14557 14872-17303 17312-17604 17739-18258 18373-19256 20321-20694 20846-22055 22122-22853 22866-23293 23557-24012 24021-24459 25225-28897
HEONM30	2136	692726	AC007032	24246	1-445
HEONM30	2136	692726	AC007032	24247	1-449
HEONM69	2137	855638	AL162417	24248	1-123 627-764 1539-1815 2006-2540 3084-3257
HEONM69	2137	855638	AC000393	24249	1-123 627-764 1539-1815 2006-2540 3018-3257 4009-4437
HEONM69	2137	855638	AC000393	24250	1-520

HEONQ08	2141	959556	AC022076	24251	1-697
HEONQ58	2143	965881	AC005075	24252	1-743
HEONQ58	2143	965881	AC005075	24253	1-155
					681-798
					1563-1852
					2495-2744
					2954-3437
					3633-5022
HEONQ65	2144	967588	AL121673	24254	1-214
					369-596
					2337-2526
					4085-4281
					9625-10355
					10452-10691
					10906-11172
					13618-13909
					13961-14549
					14655-16084
HEONQ65	2144	967588	AL121673	24255	1-700
HEONU26	2146	577429	AC009502	24256	1-122
HEONU75	2147	851054	AL358472	24257	1-467
					635-697
					3227-3518
					3646-3942
					4494-4556
					5205-5273
					5442-5550
					5630-5730
					5857-6245
					6365-6416
					6551-6796
					7144-7554
					9109-9226
					9425-9698
					10169-10350
					10479-11138
HEONU75	2147	851054	AL358472	24258	1-23
					66-116
					299-437
					857-1085
					1259-1395
					2469-2741
					2855-4513
HEONW15	2149	575812	AC015559	24259	1-65
					86-509
					733-1178
					2992-3574
					4191-4337
					4759-4850
					6000-6163
					6241-6337
					6731-6852
					6932-7048
					7138-7271
					8386-8513
					9167-9300
					9384-9468

					9527-9830
					10006-10582
					11005-11153
					11315-11469
					11660-11810
					14929-15256
					15410-15569
					16041-16200
					16626-16799
					17095-17498
					17712-18272
HEONW15	2149	575812	AC015559	24260	1-949
HEONX19	2150	668740	Z83847	24261	1-886
HEONX19	2150	668740	Z83847	24262	1-127
HEONX19	2150	668740	Z83847	24263	1-174
HEOOD03	2153	923505	AC010422	24264	1-519
HEOOD03	2153	923505	AC010422	24265	1-368
HEOOD59	2154	738991	AC005517	24266	1-438
HEOOD59	2154	738991	AC005517	24267	1-281
HEOOD59	2154	738991	AC005517	24268	1-377
HEOPE28	2156	926837	AL031717	24269	1-411
					2081-2659
					3343-3546
					3696-4058
					4477-4608
					4799-4858
					4963-5133
					5784-5908
					6227-6340
					6431-6587
					7141-7267
HEOPE28	2156	926837	AL031717	24270	1-114
HEOPE58	2157	851009	AL078634	24271	1-40
					1089-1226
					3206-3637
					4312-4463
					7455-8330
					8603-8815
					9078-9190
					9522-9767
					10946-12260
					13754-14357
					15092-15830
					18660-18822
					21128-21635
					21685-21721
HEOPE58	2157	851009	AL078634	24272	1-235
					3051-3154
					3199-3734
HEOPE58	2157	851009	AL078634	24273	1-444
HEOPF03	2158	839868	AC025896	24274	1-533
HEOPF03	2158	839868	AC004954	24275	1-533
HEOPF03	2158	839868	AC004954	24276	1-289
HEOPF18	2159	918405	AC013281	24277	1-452
HEOPF18	2159	918405	AC018988	24278	1-452
HEOPF18	2159	918405	AC013281	24279	1-376
HEOPF18	2159	918405	AC013281	24280	1-260

HEOPF18	2159	918405	AC018988	24281	1-736 812-1401 1486-1632 1812-1928 2092-2225
HEOPF18	2159	918405	AC018988	24282	1-376
HEOPF33	2161	969695	AC003959	24283	1-906
HEOPF33	2161	969695	AC003959	24284	1-551
HEOPF33	2161	969695	AC003959	24285	1-218
HEOPF56	2162	850925	AP000169	24286	1-722
HEOPF56	2162	850925	AP000054	24287	1-722
HEOPF56	2162	850925	AP000122	24288	1-722
HEOPF56	2162	850925	AP000169	24289	1-148
HEOPF56	2162	850925	AP000169	24290	1-1469
HEOPF56	2162	850925	AP000054	24291	1-148
HEOPF56	2162	850925	AP000054	24292	1-1469
HEOPF56	2162	850925	AP000122	24293	1-148
HEOPF56	2162	850925	AP000122	24294	1-1469
HEOPG01	2163	915047	AL031667	24295	1-498
HEOPG01	2163	915047	AL031667	24296	1-322
HEOPG01	2163	915047	AL031667	24297	1-481
HEOPI73	2165	850936	AC012503	24298	1-614
HEOPI73	2165	850936	AL121760	24299	1-617
HEOPJ41	2166	855634	AC053504	24300	1-572
HEOPJ41	2166	855634	AL137186	24301	1-230 2213-2392 3080-3685 5978-6108 6212-6429 6887-7380 7816-8487 8738-9199 9281-9414 10464-10891 11228-11322 12344-12968 12981-13176 13286-13517 14471-14560 14641-14728 15391-15530 18307-18411 18500-18622 19720-19995 20292-20637 20672-20748 20993-21272 21363-21560 22417-22544 23181-23271 23304-23949 24487-24594 25306-25449 25466-25582 26504-26612 27094-27754 28583-29154

					31278-32530
					32625-34658
HEOPJ41	2166	855634	AC053504	24302	1-576
HEOPJ41	2166	855634	AL137186	24303	1-383
HEOPJ41	2166	855634	AL137186	24304	1-331
HEOPK43	2167	930942	AC068377	24305	1-649
HEOPK47	2168	966327	AC025014	24306	1-1181
HEOPK47	2168	966327	AC067827	24307	1-407
					416-1175
HEOPK47	2168	966327	AC024055	24308	1-1174
HEOPK47	2168	966327	AC011850	24309	1-712
HEOPK47	2168	966327	AL162451	24310	1-712
HEOPK47	2168	966327	AC064866	24311	1-707
HEOPK47	2168	966327	AC020590	24312	1-712
HEOPK47	2168	966327	AC025014	24313	1-748
					1113-1556
					1737-2791
					3064-3832
					3885-4060
					4377-4635
					4834-5638
					6020-6199
					6722-6962
					6968-7318
					9570-10274
					10906-12100
HEOPK47	2168	966327	AC067827	24314	1-653
HEOPK47	2168	966327	AC024055	24315	1-779
HEOPK47	2168	966327	AC011850	24316	1-247
HEOPK47	2168	966327	AC025014	24317	1-874
HEOPK47	2168	966327	AC067827	24318	1-874
HEOPK47	2168	966327	AC024055	24319	1-875
HEOPK47	2168	966327	AL162451	24320	1-717
HEOPK47	2168	966327	AC064866	24321	1-249
HEOPK47	2168	966327	AL162451	24322	1-249
HEOPK47	2168	966327	AC064866	24323	1-874
HEOPK47	2168	966327	AC020590	24324	1-246
HEOPK47	2168	966327	AC020590	24325	1-875
HEOPK52	2169	883170	AC009077	24326	1-612
					1034-1344
					1424-2275
					2312-2643
					2674-2919
					3108-3176
					3294-3481
					4156-4243
					4892-4971
					5922-6017
					6060-6487
					6512-6903
HEOPK52	2169	883170	AC040162	24327	1-612
					1035-1345
					1425-2276
					2313-2644
					3109-3177
					3295-3482

					4157-4244 4893-4972 5923-6018 6061-6488 6513-6904
HEOPK52	2169	883170	AC009077	24328	1-102
HEOPK52	2169	883170	AC009077	24329	1-1299
HEOPK52	2169	883170	AC040162	24330	1-102
HEOPK52	2169	883170	AC040162	24331	1-1299
HEOPK90	2170	850883	AC019327	24332	1-2111 2558-2951 3589-3669 4541-4860
HEOPK90	2170	850883	AC027290	24333	1-1481
HEOPK90	2170	850883	AC019327	24334	1-428
HEOPK90	2170	850883	AC027290	24335	1-356
HEOPK90	2170	850883	AC019327	24336	1-356
HEOPN78	2172	918205	AC073957	24337	1-327
HEOPN78	2172	918205	AC073957	24338	1-191
HEOPO08	2174	958184	AC022748	24339	1-443
HEOPO08	2174	958184	AC044860	24340	1-444
HEOPP30	2175	850916	AL390866	24341	1-563
HEOPQ06	2176	934147	AC005590	24342	1-788 1308-3395
HEOPQ06	2176	934147	AC004224	24343	1-145 2441-2805 3057-3157 3213-3541 3918-4736 5256-7510 9194-9376 10700-10989
HEOPQ06	2176	934147	AC005590	24344	1-329
HEOPQ06	2176	934147	AC004224	24345	1-119
HEOPW04	2177	850948	AC019276	24346	1-685
HEOPW04	2177	850948	AC019276	24347	1-102
HEOPW38	2178	926764	AC005189	24348	1-509
HEOPW38	2178	926764	AC005189	24349	1-484
HEOPW38	2178	926764	AC005189	24350	1-296
HEOPW67	2179	840050	AL358334	24351	1-554
HEOPX85	2180	855625	Z92546	24352	1-87 1100-1774 2908-2980 5299-5498 6172-6463 8647-9554 9744-10744 11431-11770 11966-12280 12514-13094
HEOPZ05	2183	928257	AC012364	24353	1-152
HEOPZ29	2185	878503	AC009090	24354	1-85 704-787 4234-4484 4886-5089 6478-6564

					6958-7041 7381-7682 8713-8798 8884-8944
HEOPZ29	2185	878503	AC010550	24355	1-251 642-845 2234-2320 2714-2797 3137-3438 4468-4553 4639-4699
HEOPZ29	2185	878503	AC020769	24356	1-282 1311-1396
HEOPZ29	2185	878503	AC009090	24357	1-395
HEOPZ29	2185	878503	AC010550	24358	1-82 519-2151 2583-3992
HEOPZ29	2185	878503	AC009090	24359	1-82 519-2150 2513-3978
HEOPZ29	2185	878503	AC020769	24360	1-82 519-2149 2512-3977
HEOQB30	2186	909899	AC068341	24361	1-497 1454-2392 2960-4458
HEOQC10	2187	963398	AC067868	24362	1-423
HEOQC10	2187	963398	AL390067	24363	1-425
HEOQC10	2187	963398	AC025899	24364	1-411
HEOQC10	2187	963398	AC067868	24365	1-497
HEOQC10	2187	963398	AC025899	24366	1-498
HEOQC64	2188	850981	AC023329	24367	1-101
HEOQC64	2188	850981	AC022728	24368	1-138
HEOQC64	2188	850981	AC069496	24369	1-117
HEOQC64	2188	850981	AC024403	24370	1-115
HEOQC64	2188	850981	AC011111	24371	1-115
HEOQC64	2188	850981	AC073842	24372	1-165
HEOQC64	2188	850981	AF238279	24373	1-154
HEOQC64	2188	850981	AL121844	24374	1-219
HEOQC64	2188	850981	AC060763	24375	1-129
HEOQC64	2188	850981	AC007194	24376	1-134
HEOQC64	2188	850981	AC004090	24377	1-139
HEOQC64	2188	850981	AL139410	24378	1-1086 2299-2368
HEOQC64	2188	850981	AL139410	24379	1-1010
HEOQE04	2190	922876	AC024561	24380	1-627
HEOQF77	2191	850974	AC020907	24381	1-135 159-1252 1476-1903 2786-3156 4700-5283 6295-6413 7252-7356 7441-7616 7703-7789
HEOQF77	2191	850974	AC020907	24382	1-201

682

HEOQI11	2195	965973	AC073596	24383	1-646
HEOQI11	2195	965973	AC073596	24384	1-228 244-739 794-2653
HEOQI11	2195	965973	AC073596	24385	1-994
HEOQJ11	2196	879559	AC026645	24386	1-1481
HEOQJ11	2196	879559	AC002536	24387	1-1484
HEOQJ11	2196	879559	AC001236	24388	1-1484
HEOQJ11	2196	879559	AC026645	24389	1-477
HEOQJ11	2196	879559	AC002536	24390	1-303 1348-1436 2249-2531 4038-4744
HEOQJ11	2196	879559	AC001236	24391	1-303 1350-1438 2251-2533 4041-4747
HEOQM83	2199	850964	AC069253	24392	1-125 530-628 1021-1608 1998-2149 2287-2412 2858-3459
HEOQM83	2199	850964	AC012224	24393	1-182 584-680 887-1662 2052-2204 2339-2701 2914-3514
HEOQM83	2199	850964	AC044892	24394	1-160 1117-1442 1844-2103 2869-3022 3971-4116 5198-5472 6138-6590 7022-7205 7607-7703 7910-8685 9075-9227 9362-9724 9937-10537
HEOQM83	2199	850964	AC006252	24395	1-160 1116-1441 1843-2102 2868-3021 3978-4123 5226-5479 6145-6597 7029-7211 7613-7709 7916-8691 9081-9233 9368-9730 9943-10543
HEOQM83	2199	850964	AC012224	24396	1-453
HEOQM83	2199	850964	AC044892	24397	1-995

					1441-1664
HEOQM83	2199	850964	AC006252	24398	1-995 1441-1664
HEOQN15	2201	864110	AC019297	24399	1-225
HEOQN15	2201	864110	AC012020	24400	1-3478 3582-3807 3929-6163 6378-8378 8683-9385 9796-10287 10815-11155 13027-13128 13895-13990 15009-15105 15860-16274 16301-16423
HEOQN15	2201	864110	AC011318	24401	1-3488 3536-6169 6388-8389
HEOQN15	2201	864110	AC012340	24402	1-4803 4851-5737 6327-7474
HEOQN15	2201	864110	AC012019	24403	1-226
HEOQN15	2201	864110	AC027296	24404	1-4803 4851-5737 6328-7475 7692-9692
HEOQN15	2201	864110	AC011318	24405	1-703
HEOQN15	2201	864110	AC012340	24406	1-696
HEOQN15	2201	864110	AC019297	24407	1-1533
HEOQN15	2201	864110	AC012019	24408	1-1553
HEOQN15	2201	864110	AC012020	24409	1-2610
HEOQN15	2201	864110	AC027296	24410	1-703
HEOQN87	2202	850957	AL359674	24411	1-181
HEOQN87	2202	850957	AC015849	24412	1-111
HEOQN87	2202	850957	AP000755	24413	1-249
HEOQN87	2202	850957	AC016615	24414	1-300
HEOQN87	2202	850957	AC018362	24415	1-112 1523-1565 2260-2368 3315-4077
HEOQN87	2202	850957	AC006512	24416	1-247 2812-2918 3488-3953 3964-4527 4683-5151 5330-9121 9884-10335 10748-10781 10960-11055 11323-12111 12127-12791 12911-13262 13266-13791 14696-14866 15107-15207 16551-16955

					17174-17614 18504-18749 19392-19660 19720-20075 20785-21233 21290-21733 23618-23649 23982-24188 24481-24573 24741-25003 26591-26705 26738-27249 28479-28858 29065-31669 31926-32887 33667-34293 35229-35682 38114-38771
HEOQN87	2202	850957	AC022085	24417	1-128 1523-1565 2260-2368 3315-4077
HEOQN87	2202	850957	AC018362	24418	1-258 266-356 879-2362
HEOQN87	2202	850957	AC018362	24419	1-272
HEOQN87	2202	850957	AC006512	24420	1-818 963-1440 1469-1958 2220-3076 3455-3663 3931-4285 4549-4632 4696-5069 5245-5337 5461-5775
HEOQN87	2202	850957	AC022085	24421	1-258 266-356 879-2363
HEOQN87	2202	850957	AC006512	24422	1-738
HEOQN87	2202	850957	AC022085	24423	1-272
HEOQP44	2203	942596	AC006510	24424	1-1150
HEOQP44	2203	942596	AC025354	24425	1-747
HEOQP44	2203	942596	AL022167	24426	1-1796
HEOQP44	2203	942596	AC068470	24427	1-706
HEOQP44	2203	942596	AL022344	24428	1-2022
HEOQP44	2203	942596	AC006096	24429	1-2211
HEOQP44	2203	942596	AC006106	24430	1-2215
HEOQP44	2203	942596	AC006108	24431	1-2210
HEOQP44	2203	942596	U82205	24432	1-2213
HEOQP44	2203	942596	U82208	24433	1-2212
HEOQP44	2203	942596	AC006171	24434	1-2213
HEOQP44	2203	942596	AC006180	24435	1-2213
HEOQP44	2203	942596	AC006177	24436	1-2212 2216-2455 2951-4547 4559-4639

685

					4902-5697
HEOQP44	2203	942596	AC006094	24437	1-1984
HEOQP44	2203	942596	AC006185	24438	1-2206
HEOQP44	2203	942596	AC006184	24439	1-2204
					2208-2447
					2943-3574
					3724-4540
					4552-4633
					4896-5715
HEOQP44	2203	942596	AC006172	24440	1-2211
HEOQP44	2203	942596	AC006099	24441	1-2212
HEOQP44	2203	942596	AC006103	24442	1-2213
HEOQP44	2203	942596	AC006098	24443	1-2212
HEOQP44	2203	942596	AC006096	24444	1-240
					737-1362
HEOQP44	2203	942596	AC006106	24445	1-240
					736-1423
HEOQP44	2203	942596	AC006108	24446	1-240
					736-1359
HEOQP44	2203	942596	U82205	24447	1-255
					736-849
					1023-1457
HEOQP44	2203	942596	U82208	24448	1-240
					736-1425
HEOQP44	2203	942596	AC006171	24449	1-247
					1217-1320
					1624-1963
					2076-2179
					2604-2711
					2716-3114
					3399-3638
					4344-4427
					5079-5141
					5439-8153
					8268-8798
HEOQP44	2203	942596	AC006096	24450	1-110
HEOQP44	2203	942596	AC006177	24451	1-67
					1558-1614
					1692-2134
					2610-2767
					4075-4344
					5072-5484
					5971-6837
					7042-7752
HEOQP44	2203	942596	U82205	24452	1-28
					384-522
					2412-6373
					6598-7151
					7230-7525
					9388-9464
					10003-10111
HEOQP44	2203	942596	U82208	24453	1-511
HEOQP44	2203	942596	AC006171	24454	1-240
					736-1540
					7244-8075
					8087-8167
HEOQP44	2203	942596	AC006094	24455	1-210

HEOQP44	2203	942596	AC006180	24456	1-240 736-1625
HEOQP44	2203	942596	AC006185	24457	1-240 736-1359
HEOQP44	2203	942596	AC006172	24458	1-240 847-1425
HEOQP44	2203	942596	AC006184	24459	1-130
HEOQP44	2203	942596	AC006099	24460	1-416
HEOQP44	2203	942596	AC006099	24461	1-240 736-1424
HEOQP44	2203	942596	AC006103	24462	1-422
HEOQP44	2203	942596	AC006103	24463	1-240 737-2325
HEOQP44	2203	942596	AC006098	24464	1-291
HEOQP44	2203	942596	AC006098	24465	1-240 736-1424
HEOQW81	2208	887147	AL159177	24466	1-1090
HEOQW81	2208	887147	AC062024	24467	1-1090
HEOQW81	2208	887147	AL159177	24468	1-155
HEORC12	2209	969585	AC018868	24469	1-193 1177-1476 1509-1924 2218-2798 2828-2862 4192-4303 4555-5109 5442-5500 5782-6079 8920-8960
HEORE22	2212	969579	AC026741	24470	1-698
HEORE22	2212	969579	AC019267	24471	1-699
HEORE22	2212	969579	AC025454	24472	1-699
HEORE22	2212	969579	AC026741	24473	1-410
HEORE22	2212	969579	AC019267	24474	1-289
HEORE22	2212	969579	AC025454	24475	1-84
HEORE22	2212	969579	AC019267	24476	1-84
HEORE22	2212	969579	AC025454	24477	1-289
HEORE27	2213	850902	AC034199	24478	1-540 851-1144 1164-1646 1871-3258 3619-4160 4216-4290 4715-5577 7379-7476 8023-8700 8786-8852 8970-9054 9100-9487 10513-10885 12867-12891 13114-13224 14721-14752 16197-16933 17094-17635 17691-17821 18749-19392

					20883-21548 22494-22739 23284-24570 24971-25301 25676-26051 27036-28731
HEORE27	2213	850902	AC027741	24479	1-737
HEORE27	2213	850902	AC034199	24480	1-723
HEORE79	2214	959572	AL162727	24481	1-637
HEORE79	2214	959572	AL158832	24482	1-390
HEORE79	2214	959572	AL158832	24483	1-394
HEORE79	2214	959572	AL158832	24484	1-393
HEORH20	2216	934067	AC064847	24485	1-574
HEORH20	2216	934067	AC013278	24486	1-571
HEORH20	2216	934067	AC010150	24487	1-574
HEORH20	2216	934067	AC010150	24488	1-576 811-953 1388-1470
HEORI90	2217	918166	AC011398	24489	1-686 858-977 1156-2323 2682-2870 3044-3124 3714-3948 4102-4263 5215-5326 5855-6439 6888-7053 8151-8201 8289-8366 8826-8942 9306-9610 9735-9905 10731-10791 11073-11166 13214-13660 14096-14747 14867-14967 15679-15904 16053-16146 16282-16326
HEORI90	2217	918166	AC011398	24490	1-102
HEORM10	2219	963194	AL121715	24491	1-424
HEORM10	2219	963194	AC011191	24492	1-424
HEORM10	2219	963194	AC011191	24493	1-551
HEORM21	2220	839142	AC024015	24494	1-163
HEOSI66	2223	850917	AL358013	24495	1-533
HEOSI66	2223	850917	AL358013	24496	1-536
HEOSJ50	2224	922825	AC011141	24497	1-55 78-451 1682-3163
HEOSJ50	2224	922825	AC015901	24498	1-55 542-781 1682-3163
HEOSJ50	2224	922825	AC011141	24499	1-596
HEOSJ50	2224	922825	AC015901	24500	1-596
HEOSL01	2225	914874	AC013570	24501	1-96

					333-401
					1207-1235
					1613-1683
					2013-2135
					2182-2742
					3254-3338
					3468-3676
					3762-5506
HEOSL01	2225	914874	AC013570	24502	1-144
HEOSN60	2228	841869	AC005393	24503	1-814
					1233-1338
					2220-3032
					3531-3761
					3927-4154
					4811-6240
					6527-6784
HEOSN60	2228	841869	AC006133	24504	1-814
					1240-1340
					2221-3033
					3532-3762
					3928-4155
					4805-6351
					6523-6780
HEOSS04	2233	926483	AC005393	24505	1-814
					1233-1338
					2220-3032
					3531-3761
					3927-4154
					4811-6240
					6527-6784
HEOSS04	2233	926483	AC006133	24506	1-814
					1240-1340
					2221-3033
					3532-3762
					3928-4155
					4805-6351
					6523-6780
HFSAQ59	2237	572813	AC011487	24507	1-1019
					1184-1741
HFSAV59	2238	675922	AJ010597	24508	1-702
HFSAV59	2238	675922	AJ010597	24509	1-412
HFSAX51	2239	572815	AL359958	24510	1-410
HFSBF09	2240	573315	AC010937	24511	1-576
HFSBF09	2240	573315	AC010937	24512	1-396
HFSBG31	2241	504368	AC023790	24513	1-320
HFSBG31	2241	504368	AC007688	24514	1-565
					943-1310
HFSBG31	2241	504368	AC007688	24515	1-228
HHEAA27	2242	575258	AC011265	24516	1-648
HHEAA27	2242	575258	AC026040	24517	1-647
HHEAA27	2242	575258	AL162403	24518	1-648
HHEAA27	2242	575258	AC011265	24519	1-1395
					1571-1877
					2651-2876
HHEAA27	2242	575258	AC026040	24520	1-139
HHEAA27	2242	575258	AC011265	24521	1-139
HHEAA27	2242	575258	AL162403	24522	1-139

HHEAA27	2242	575258	AC026040	24523	1-226
HHEAW46	2244	718120	AC007732	24524	1-1302
HHEAW46	2244	718120	AC002348	24525	1-1442 1567-2195
HHEAW46	2244	718120	AC002348	24526	1-102
HHEAW46	2244	718120	AC002348	24527	1-657 2327-2439 2632-2735 3458-3660 3945-4387 4630-5826 8988-9018
HHEBS24	2245	858417	AC021443	24528	1-295
HHEBS24	2245	858417	AC021443	24529	1-356
HHECK11	2246	924982	AC009095	24530	1-70 257-417 498-596 1633-1764 1850-1964 2135-2295 2326-2872
HHECK11	2246	924982	AC010530	24531	1-70 257-417 498-596 1633-1764 1850-1964 2135-2295 2326-2872 2922-2989 3414-3656
HHECO01	2250	915285	AC023855	24532	1-323
HHECO01	2250	915285	AC004150	24533	1-667 822-1076 1105-2557 2630-2731 3132-3487 3656-3756 4008-4503 4851-5606 5840-5931 6017-6076 6240-6623 6801-6909 7062-7111 7810-7933 8278-8414 8854-8998 9824-9992 10083-10483 10664-10953 11642-11854 13979-14224 14528-14750 14957-15091 15430-15542 15639-16086
HHECO01	2250	915285	AC023855	24534	1-114

					222-395 485-748
HHECO01	2250	915285	AC004150	24535	1-114 222-395 485-747
HHECO01	2250	915285	AC004150	24536	1-180 197-710 1093-1279 2600-3312 3623-3731 4141-4235 4431-4552 4750-4917 5143-5808
HHECR08	2251	959125	AC034102	24537	1-152 251-355 439-953 998-1051 1242-2100 2510-3240 3394-3516
HHECT58	2252	973110	AC018778	24538	1-443
HHECT59	2253	858407	AC025346	24539	1-1451
HHECT59	2253	858407	AL158167	24540	1-1069 1840-1982 3338-4443 4712-5405 5495-6303 6335-6484 6664-6813 7254-7555 7564-8136 8854-9010 10164-10854 11101-11245
HHECT59	2253	858407	AL158167	24541	1-696
HHECT70	2254	753842	AC009927	24542	1-89 1919-1991
HHECT70	2254	753842	AC020782	24543	1-89 1919-1991
HHECT70	2254	753842	AC020782	24544	1-411 2207-2621 2640-3072
HHECX82	2255	915913	AC016442	24545	1-317
HHECX82	2255	915913	AC022794	24546	1-370
HHECX82	2255	915913	AC022624	24547	1-384
HHECX82	2255	915913	AC068926	24548	1-322
HHECX82	2255	915913	AC068846	24549	1-321
HHECX82	2255	915913	AC016442	24550	1-195
HHECX82	2255	915913	AC022794	24551	1-195
HHECX82	2255	915913	AC022624	24552	1-195
HHECX82	2255	915913	AC068926	24553	1-195
HHECX82	2255	915913	AC068846	24554	1-195
HHEDB31	2256	697806	AC068169	24555	1-649
HHEDB31	2256	697806	AC015815	24556	1-223 318-873 935-1293

					1581-2228 3955-4070 4510-5642
HHEDB31	2256	697806	AC068169	24557	1-359
HHEDB31	2256	697806	AC015815	24558	1-391
HHEDH57	2257	665762	AC000119	24559	1-452 1221-1486 2326-2549 2833-2982 3534-3620 9221-10633 11535-11911 12219-12718
HHEDH57	2257	665762	AC000119	24560	1-644
HHEDJ94	2258	906876	Z82215	24561	1-546
HHEDJ94	2258	906876	Z82215	24562	1-167
HHEDN93	2260	731067	AC020922	24563	1-37 404-1332 1650-3384 3532-3983 4030-4219 4289-6138
HHEDN93	2260	731067	AC020922	24564	1-352
HHEDO74	2262	463250	AC022169	24565	1-1183
HHEDO74	2262	463250	AC022169	24566	1-350
HHEDW03	2265	923340	AC006357	24567	1-323 4607-5138 7555-8554 9669-9783 10302-10430 11358-11727 11930-12130 13766-13869 14973-15279 15422-15641 17679-18083 18672-18946 19772-20250 20837-21534 21734-23198 24100-24230 24789-25073 26876-27026 27319-28136
HHEDW03	2265	923340	AC006357	24568	1-2019 2212-2659
HHEDW58	2266	735609	AL132712	24569	1-32 1524-2046 3950-4229 4336-5513 6179-6239 6574-7321 7598-7726 7794-8150 8351-8506 8843-9342 9391-10702

HHEEC61	2268	741280	AL139243	24570	1-124
					253-576
					1518-1633
					3033-3129
					3691-3818
					3974-5027
					11158-11297
					11518-11950
					12843-13467
					13778-13928
					14650-15086
					15187-15802
					16261-16362
					16470-18226
					19666-20061
					20317-20615
					20879-21115
					21211-21392
					22556-22621
					22629-23329
					24212-24567
					26565-26890
					28676-28782
					28796-29131
					29205-31778
					31793-31921
					31985-32321
					32376-32986
HHEEC61	2268	741280	AL022313	24571	1-439
HHEEC61	2268	741280	AL139243	24572	1-131
HHEEC61	2268	741280	AL022313	24573	1-82
HHEEC61	2268	741280	AL022313	24574	1-459
HHEEK88	2269	702337	AC004604	24575	1-1069
HHEEK88	2269	702337	AC004480	24576	1-1550
HHEEK88	2269	702337	AC004480	24577	1-193
HHEEL47	2270	719825	AL049780	24578	1-33
					2486-3028
					3593-3681
					3828-3889
					6854-6907
					7350-7545
					9474-9717
					9723-10077
					10527-11087
					11166-11594
					13231-13400
					14027-14327
					15465-15573
					16076-16238
					19959-20368
					21799-21859
					23602-24438
					24694-24797
					25509-25961
					26557-27070
					28587-28750
					28843-29088

					29996-30215 30398-30446 32541-35115
HHEEL47	2270	719825	AC007055	24579	1-33 2488-3030 3594-3682 3829-3890 6855-6908 7351-7546 9459-9702 9708-10062 10512-11071 11150-11578 13215-13384 14006-14311 15449-15557 16060-16222 19946-20355 21782-21842 23585-24421 25493-25945 26541-27054 28572-28735 28828-29073 29981-30200 32526-35100
HHEEL47	2270	719825	AL049780	24580	1-133
HHEEL47	2270	719825	AL049780	24581	1-295
HHEEL47	2270	719825	AC007055	24582	1-266
HHEEL47	2270	719825	AC007055	24583	1-133
HHEFB29	2271	690073	AC018571	24584	1-35 508-1227
HHEFB29	2271	690073	AC015651	24585	1-35 508-1227
HHEFB29	2271	690073	AC018571	24586	1-102
HHEFB29	2271	690073	AC018571	24587	1-257
HHEFB29	2271	690073	AC015651	24588	1-453
HHEFB29	2271	690073	AC015651	24589	1-377
HHEFL47	2274	973094	AL353719	24590	1-216
HHEFL47	2274	973094	AC007643	24591	1-351 10302-10721 10836-11053 11256-11687 11807-11910 12329-12675 13340-13678 16697-16760 17006-17215 18285-19670 20038-21690 27641-27960
HHEFL47	2274	973094	AC007643	24592	1-313
HHEFZ58	2275	735615	AL157391	24593	1-615
HHEFZ58	2275	735615	AL157391	24594	1-375
HHEGA66	2276	969467	AL022318	24595	1-407 1173-1467 1693-1857

HHEGA66	2276	969467	AL022318	24596	1-156 1369-1531 1988-2167 2802-3008 3540-3823 4045-6131
HHEHC74	2277	974406	AL355874	24597	1-763
HHEHC74	2277	974406	AL139019	24598	1-764
HHEHD94	2278	964103	AL162853	24599	1-3940
HHEHD94	2278	964103	AL157931	24600	1-3364
HHEHD94	2278	964103	Z84466	24601	1-3869
HHEHD94	2278	964103	AL162853	24602	1-476
HHEHD94	2278	964103	AL157931	24603	1-1290 1419-2784
HHEHD94	2278	964103	AL162853	24604	1-1290 1418-2787
HHEHU73	2279	923895	AL135924	24605	1-570
HHEHW78	2280	973140	AC006468	24606	1-965
HHEHW78	2280	973140	AC006468	24607	1-507
HHEHW78	2280	973140	AC006468	24608	1-103
HHEJY91	2283	974407	AC021603	24609	1-536
HHEJY91	2283	974407	AC021603	24610	1-536
HHEJY91	2283	974407	AC008498	24611	1-536
HHEJY91	2283	974407	AC021603	24612	1-251
HHEJY91	2283	974407	AC021603	24613	1-546
HHEJY91	2283	974407	AC008498	24614	1-546
HHEJY91	2283	974407	AC008498	24615	1-251
HHEKJ20	2285	918032	AC044889	24616	1-140 1403-1492
HHEKJ20	2285	918032	AC044889	24617	1-330
HHEKJ20	2285	918032	AC044889	24618	1-307
HHEKJ27	2286	858384	AC068823	24619	1-697
HHEKJ27	2286	858384	AC025242	24620	1-697
HHEKJ27	2286	858384	AC025242	24621	1-295
HHEKK06	2287	933849	AC009477	24622	1-494
HHEKK06	2287	933849	AC009477	24623	1-615
HHEKP61	2288	913413	AC024402	24624	1-114 442-2012 2738-2916 3476-3640 3818-4273 5008-5478 5684-5883
HHEKP61	2288	913413	AL035530	24625	1-137 465-2035 2761-2939 3499-3663 3841-4296 5031-5501 5707-5905 5946-6330 6790-6899 6957-7401 7628-7818 7889-10548
HHEKP61	2288	913413	AL035530	24626	1-577

HHELD03	2290	868495	AL158037	24627	1-897 971-2743 2892-4334 4530-5979
HHELD03	2290	868495	AL161651	24628	1-897 971-2743 2891-4333 4529-5979
HHELD03	2290	868495	AL355542	24629	1-898 972-2744 2892-4334 4530-5980
HHELD03	2290	868495	AL161651	24630	1-312
HHELD03	2290	868495	AL355542	24631	1-312
HHELD03	2290	868495	AL158037	24632	1-312
HHELD11	2291	974419	AL159170	24633	1-185
HHEMA34	2292	704035	AC073473	24634	1-1280
HHEMA34	2292	704035	AL359681	24635	1-1345
HHEMA34	2292	704035	AL162151	24636	1-1345
HHEMA34	2292	704035	AC073473	24637	1-1503
HHEMA34	2292	704035	AL359681	24638	1-475
HHEMA34	2292	704035	AL359681	24639	1-1503
HHEMA34	2292	704035	AL162151	24640	1-475
HHEMA34	2292	704035	AL162151	24641	1-1503
HHEMA65	2293	719229	AC023058	24642	1-250
HHEMA65	2293	719229	AC026172	24643	1-300
HHEMA65	2293	719229	AC023159	24644	1-417 497-1108
HHEMA65	2293	719229	AC018506	24645	1-417 497-1108
HHEMA65	2293	719229	AC024056	24646	1-76 81-323 1103-1538 1618-2229
HHEMA65	2293	719229	AC023159	24647	1-239
HHEMA65	2293	719229	AC018506	24648	1-239
HHEMA65	2293	719229	AC018506	24649	1-243
HHEMA65	2293	719229	AC024056	24650	1-640
HHEMA65	2293	719229	AC024056	24651	1-1699 1789-1924
HHEMD28	2294	858303	AL359220	24652	1-717
HHEMD28	2294	858303	AL359220	24653	1-279
HHEMN76	2296	752947	AL354760	24654	1-452
HHEMN76	2296	752947	AL354760	24655	1-301
HHEMO91	2297	790100	AC021717	24656	1-268
HHEMO91	2297	790100	AC021717	24657	1-580
HHEMQ56	2298	858289	AL354000	24658	1-377
HHEMQ56	2298	858289	AL035362	24659	1-743
HHEND28	2301	468911	AL109827	24660	1-167 3707-4209 4491-4724 5912-5993 9579-13468 13539-16589 17762-17894 18778-19143

					22182-22483
					23261-23507
					24315-24603
					24926-25440
					26720-27727
					28153-28406
					28500-29315
					30670-30935
					32002-32141
					32230-32415
					32538-32617
					32691-32761
					32884-32983
					33139-33241
					33345-33436
					33568-33676
					33752-33826
					33892-34491
					34515-34638
					34825-36103
					36342-36572
					36644-38894
HHEND28	2301	468911	AL109827	24661	1-121
HHEND28	2301	468911	AL109827	24662	1-315
HHENE47	2305	720255	AC016960	24663	1-978
HHENE47	2305	720255	AC004585	24664	1-49
					1005-2293
					2311-2758
					3124-6923
HHENE47	2305	720255	AC016960	24665	1-449
HHENE47	2305	720255	AC016960	24666	1-2087
HHENE47	2305	720255	AC004585	24667	1-449
HHENE47	2305	720255	AC004585	24668	1-607
HHENG31	2306	917904	AL031291	24669	1-772
					2417-2863
					4334-4399
					5012-5623
					5906-5969
					11332-11765
					12569-15176
					16670-16756
					18766-18867
					20431-20560
					21913-22791
HHENG31	2306	917904	AL031291	24670	1-475
HHENR11	2310	966906	AL160271	24671	1-941
HHENR11	2310	966906	AL160271	24672	1-428
HHENR78	2311	773537	AC074051	24673	1-571
HHENR78	2311	773537	AC069047	24674	1-1960
HHENR78	2311	773537	AC005326	24675	1-44
					95-1119
					2072-2659
					2759-3143
					3192-3938
					4002-4263
					4364-5310
HHENR78	2311	773537	AC074051	24676	1-223

HHENR78	2311	773537	AC069047	24677	1-650
HHENR78	2311	773537	AC074051	24678	1-425
HHENR78	2311	773537	AC069047	24679	1-595
HHENR78	2311	773537	AC005326	24680	1-499
HHENR78	2311	773537	AC005326	24681	1-252
HHENV38	2312	657383	AC074378	24682	1-407
HHENV38	2312	657383	AC074378	24683	1-290
HHENZ86	2313	670837	AC016962	24684	1-1905 1916-2500 3111-3204 6196-6384 6488-6625 7614-8168 8714-9163 9279-9778 10000-10155 10852-13414
HHENZ86	2313	670837	AC026303	24685	1-472
HHENZ86	2313	670837	AC013497	24686	1-275 482-1278 1289-1873 2484-2577 5573-5761 5865-6002 6991-7545 8091-8562 8656-9155 9377-9532 10231-12793
HHENZ86	2313	670837	AC026303	24687	1-283
HHENZ86	2313	670837	AC016962	24688	1-360
HHENZ86	2313	670837	AC013497	24689	1-360
HHENZ86	2313	670837	AC013497	24690	1-616
HHEOF20	2314	861457	AC068443	24691	1-362
HHEOF20	2314	861457	AC064800	24692	1-364
HHEOF20	2314	861457	AC021934	24693	1-362
HHEOF20	2314	861457	AC064800	24694	1-125
HHEOF20	2314	861457	AC021934	24695	1-100
HHEOF58	2315	841978	AC015537	24696	1-499
HHEOF58	2315	841978	AC021331	24697	1-585 1304-2219
HHEOF58	2315	841978	AC018529	24698	1-585 1304-2219
HHEOG17	2316	662948	AL356957	24699	1-1368 1595-2841 2874-3153
HHEOG17	2316	662948	AC025992	24700	1-1368 1595-2860 2889-3048
HHEOG17	2316	662948	AC018593	24701	1-1368 1595-2860 2891-3050
HHEOG17	2316	662948	AL356957	24702	1-443
HHEOG17	2316	662948	AL356957	24703	1-849
HHEOG17	2316	662948	AC025992	24704	1-443
HHEOG17	2316	662948	AC018593	24705	1-443

HHEOG17	2316	662948	AC018593	24706	1-332
HHEOG67	2317	588154	AC024010	24707	1-1108
HHEOG67	2317	588154	AC024010	24708	1-221
HHEOI18	2318	677891	AL357313	24709	1-196 514-656 782-2083
HHEOI18	2318	677891	AC020688	24710	1-1872
HHEOI18	2318	677891	AC020688	24711	1-296
HHEOI18	2318	677891	AC020688	24712	1-1213
HHEOX60	2321	734311	AC068226	24713	1-391
HHEOZ17	2322	793087	AC011037	24714	1-648
HHEOZ17	2322	793087	AC011037	24715	1-759
HHEOZ17	2322	793087	AC011037	24716	1-893
HHEPD46	2323	718950	AC015557	24717	1-732
HHEPD73	2324	966828	AC009090	24718	1-777
HHEPD73	2324	966828	AC010550	24719	1-777
HHEPD73	2324	966828	AC020769	24720	1-777
HHEPD73	2324	966828	AC020769	24721	1-261
HHEPD73	2324	966828	AC020769	24722	1-82 855-937 1203-1300 2390-2784 3308-3390 4006-4088
HHEPG15	2326	659664	AC021672	24723	1-926
HHEPG15	2326	659664	AP001183	24724	1-926
HHEPG15	2326	659664	AC019227	24725	1-926
HHEPG15	2326	659664	AC021672	24726	1-1016
HHEPG15	2326	659664	AP001183	24727	1-212
HHEPG15	2326	659664	AC021672	24728	1-175
HHEPG15	2326	659664	AP001183	24729	1-175
HHEPG15	2326	659664	AC019227	24730	1-1020
HHEPG15	2326	659664	AC019227	24731	1-175
HHEPK28	2327	686489	AL356863	24732	1-570
HHEPK28	2327	686489	AL163536	24733	1-570
HHEPK28	2327	686489	AC026755	24734	1-570
HHEPK28	2327	686489	AL356863	24735	1-492
HHEPK28	2327	686489	AL163536	24736	1-492
HHEPK28	2327	686489	AC026755	24737	1-492
HHEPK28	2327	686489	AC026755	24738	1-38 68-340 3702-3878 4352-4673
HHEPM73	2328	683270	AC069495	24739	1-55 1263-2079 2181-2292 2645-2991 3708-3865 4906-5017
HHEPM73	2328	683270	AC026318	24740	1-55 1263-2079 2181-2292 2645-2991 3708-3865 4906-5017
HHEPM73	2328	683270	AC069495	24741	1-193

HHEPM73	2328	683270	AC026318	24742	1-529
HHEPM73	2328	683270	AC069495	24743	1-450
HHEPM73	2328	683270	AC026318	24744	1-450
HHEPN44	2329	716494	AL161725	24745	1-880
HHEPR14	2330	869381	AL139141	24746	1-1080
HHEPR14	2330	869381	AL139141	24747	1-1117
HHEPR14	2330	869381	AL139141	24748	1-467
HHEPZ10	2332	963715	AC061991	24749	1-307
HHEPZ10	2332	963715	AC061991	24750	1-413
HHEQB17	2333	918056	AL137069	24751	1-418
HHEQG21	2335	934680	AC019070	24752	1-468
HHEQG45	2336	717303	AC025241	24753	1-319
HHEQG72	2338	922619	AC025242	24754	1-339
HHEQG72	2338	922619	AC060773	24755	1-339
HHEQG75	2339	766960	AC016482	24756	1-511
HHEQG75	2339	766960	AC016482	24757	1-678
HHEQG86	2340	784752	AC018755	24758	1-264
HHEQG86	2340	784752	AC018755	24759	1-346 571-1076
HHEQH63	2341	744596	AC021913	24760	1-400
HHEQH63	2341	744596	AL354759	24761	1-400
HHEQH63	2341	744596	AC021913	24762	1-201 206-255
HHEQH63	2341	744596	AL354759	24763	1-107
HHEQI11	2343	966293	AC009673	24764	1-1467
HHEQI11	2343	966293	AC055876	24765	1-968
HHEQI11	2343	966293	AC009673	24766	1-721
HHEQI11	2343	966293	AC055876	24767	1-975
HHEQI11	2343	966293	AC055876	24768	1-223
HHEQI89	2345	786607	AC024561	24769	1-301
HHEQI89	2345	786607	AC024561	24770	1-311
HHEQK01	2346	871911	AF129078	24771	1-445 1353-1661 1808-2147 2245-2994
HHEQK01	2346	871911	AF129078	24772	1-321
HHEQK01	2346	871911	AF129078	24773	1-421
HHEQP38	2348	709076	AC009966	24774	1-522
HHEQP38	2348	709076	Z98256	24775	1-522
HHEQP38	2348	709076	AC009966	24776	1-212
HHEQP38	2348	709076	Z98256	24777	1-212
HHEQP83	2349	780397	AL139019	24778	1-726
HHEQP83	2349	780397	AL139019	24779	1-393
HHEQS17	2351	662203	AL356261	24780	1-543
HHEQS17	2351	662203	AL035406	24781	1-543
HHEQS17	2351	662203	AL356261	24782	1-427
HHEQS17	2351	662203	AL356261	24783	1-312
HHEQS17	2351	662203	AL035406	24784	1-427
HHEQS17	2351	662203	AL035406	24785	1-312
HHEQU09	2352	755007	AL136163	24786	1-55 97-495
HHEQU09	2352	755007	AL136163	24787	1-237
HHEQV03	2353	923324	AL356503	24788	1-954
HHEQV03	2353	923324	AL365266	24789	1-480 633-1251 1773-2283

					2674-3511 3573-3935 4016-6903 7909-8049 10282-13824 13929-14494 16442-16981 17976-18978 19237-19298 19956-20134 20454-21030 21091-21544 21635-22559 23894-24358 24857-25186 26377-26517 28168-28191 28660-28974
HHEQV03	2353	923324	AC020781	24790	1-481 634-1252 1774-2284 2675-3512 3574-3936 4017-6747 6817-6896
HHEQV03	2353	923324	AL365266	24791	1-114
HHEQV03	2353	923324	AC020781	24792	1-673
HHEQV03	2353	923324	AL365266	24793	1-673
HHEQV03	2353	923324	AC020781	24794	1-141
HHEQX60	2355	915561	AC073452	24795	1-1496 1862-2368 3901-4364 4423-4466
HHEQX60	2355	915561	AC074276	24796	1-463
HHEQY32	2356	698633	AL365325	24797	1-550 4210-4334 5155-6485 6716-7336 7560-7700 7748-8957
HHEQY32	2356	698633	AL135798	24798	1-126 200-869 2585-2711 3644-4228 5843-6392 10052-10182 10998-12328 12559-13179 13403-13543 13591-14801
HHEQY32	2356	698633	AL365325	24799	1-585
HHEQY32	2356	698633	AL135798	24800	1-388
HHERA17	2357	858239	AC008608	24801	1-1145
HHERA17	2357	858239	AC011336	24802	1-1145
HHERA17	2357	858239	AC009012	24803	1-1117
HHERA17	2357	858239	AC008608	24804	1-457
HHERA17	2357	858239	AC011336	24805	1-457

HHERA17	2357	858239	AC009012	24806	1-1465
HHERO39	2361	858238	AC016239	24807	1-514
HHERO39	2361	858238	AC011741	24808	1-514
HHERO95	2362	928142	AC025352	24809	1-1306
HHERO95	2362	928142	AC025352	24810	1-931
HHERQ04	2363	925697	AL353577	24811	1-518
HHERQ04	2363	925697	AL353226	24812	1-518
HHERQ04	2363	925697	AL360020	24813	1-518
HHERQ04	2363	925697	AL360020	24814	1-1677 1690-2478
HHERQ04	2363	925697	AL353226	24815	1-1677 1686-2841 2869-6090 10326-11107 11853-11962 12180-12496 12639-12728 19461-19718 24440-30605 33206-33353
HHERU77	2365	934167	AC025792	24816	1-522 622-821
HHERU77	2365	934167	AC023932	24817	1-526 626-825
HHERV38	2366	933142	AL390318	24818	1-964
HHERV38	2366	933142	AC010161	24819	1-964
HHERV38	2366	933142	AL390318	24820	1-504
HHERV38	2366	933142	AC010161	24821	1-504
HHERX04	2367	925700	AC069393	24822	1-66 785-855 2257-2370 2803-2889 3280-3561 3960-4069 5283-5572 6018-6125 7275-7762 9451-10176 10279-10666 11585-11844 13622-13722 13795-14102 14310-15048 15479-16049 16606-16682
HHERX04	2367	925700	AC004895	24823	1-66 785-855 2257-2370 2803-2889 3278-3559 3958-4067 5281-5570 6016-6123 7277-7765 9454-10179 10283-10673 11590-11849

					13627-13727 13799-15068 15500-16070 16620-16929 16986-17368 18671-19248 19324-19364 19571-21436
HHERX04	2367	925700	AC069393	24824	1-130
HHERX04	2367	925700	AC069393	24825	1-383
HHERX04	2367	925700	AC004895	24826	1-3248 3499-3653 3771-3842 3959-4055
HHERX04	2367	925700	AC004895	24827	1-130
HHESF07	2368	952214	AP000407	24828	1-747
HHESF07	2368	952214	AP001350	24829	1-747
HHESF07	2368	952214	AP001872	24830	1-747
HHESF07	2368	952214	AP000407	24831	1-491
HHESF07	2368	952214	AP001350	24832	1-491
HHESF07	2368	952214	AP000407	24833	1-574
HHESF07	2368	952214	AP001350	24834	1-574
HHESF07	2368	952214	AP001872	24835	1-574
HHESF07	2368	952214	AP001872	24836	1-491
HHESG02	2369	918639	Z73495	24837	1-312
HHESG02	2369	918639	Z73495	24838	1-402
HHESH33	2370	893701	AC025073	24839	1-544
HHESH33	2370	893701	AC041016	24840	1-544
HHESH33	2370	893701	AC025073	24841	1-411
HHESH33	2370	893701	AC025073	24842	1-551
HHESH33	2370	893701	AC041016	24843	1-551
HHESH33	2370	893701	AC041016	24844	1-411
HHESI92	2371	792431	AC013416	24845	1-133 216-355 360-480 623-730 909-1963
HHESI92	2371	792431	AC004847	24846	1-133 325-423 909-1963
HHESI92	2371	792431	AC013416	24847	1-599
HHESI92	2371	792431	AC004847	24848	1-592
HHESJ03	2372	922998	AC027132	24849	1-642
HHESJ03	2372	922998	AL162402	24850	1-641
HHESJ03	2372	922998	AC016797	24851	1-642
HHESJ03	2372	922998	AL162402	24852	1-263
HHESJ03	2372	922998	AC016797	24853	1-466
HHESJ03	2372	922998	AC016797	24854	1-263
HHESN02	2374	918634	AC011031	24855	1-406
HHESN02	2374	918634	AC011031	24856	1-424
HHESP87	2376	858224	AC078826	24857	1-206 473-671 1111-1215 1237-1363 1663-2616 5371-5585

					6194-6495 6651-6986 7400-7509 8213-8295 8386-9774 9876-10005 10234-10579
HHESP87	2376	858224	AC009246	24858	1-337 1744-1978 2474-2606 3548-3688 4124-4363 4627-4722 4759-4916 5022-5231 6338-6527 6919-7358 9748-10027 10294-10492 10932-11184 11484-12437 15191-15405 16014-16142 16471-16806 17220-17329 18033-18115 18206-19825 20054-20399 20581-20675 20792-20819 21145-21226 21867-22465 23130-23739 23854-23993 24291-24397 25332-25449 25590-25750 25768-26523 26928-27096 27262-27696 28152-28995
HHESP87	2376	858224	AC009246	24859	1-95
HHEST60	2377	858220	AL023584	24860	1-834
HHESU02	2378	918668	AL161871	24861	1-507
HHESU02	2378	918668	AL355840	24862	1-507
HHESU02	2378	918668	AL161871	24863	1-459
HHESU02	2378	918668	AL161871	24864	1-980
HHESU02	2378	918668	AL355840	24865	1-980
HHESU02	2378	918668	AL355840	24866	1-459
HHESU54	2380	926341	AL355865	24867	1-425
HHESU85	2381	783820	AP001273	24868	1-89
HHESU85	2381	783820	AP001886	24869	1-91
HHESV46	2382	935074	AC034240	24870	1-141
HHESV46	2382	935074	AC068594	24871	1-121
HHESV46	2382	935074	AC027741	24872	1-617
HHESV46	2382	935074	AC034199	24873	1-617
HHESV46	2382	935074	AC027741	24874	1-725

HHESV46	2382	935074	AC027741	24875	1-521
HHESV46	2382	935074	AC034199	24876	1-521
HHESV46	2382	935074	AC034199	24877	1-726
HHETA53	2383	858211	AC017072	24878	1-751
HHETA53	2383	858211	AL133343	24879	1-751
HHETA53	2383	858211	AL034550	24880	1-751
HHETB42	2384	973127	AC069070	24881	1-232
HHETB42	2384	973127	AC024147	24882	1-232
HHETC50	2385	927000	AL355675	24883	1-386
HHETC50	2385	927000	AL109917	24884	1-386
HHETC50	2385	927000	AL355675	24885	1-132
HHETC50	2385	927000	AL109917	24886	1-313 1404-1672 3259-3454
HHETD13	2386	858218	AC015908	24887	1-634
HHETD13	2386	858218	AC015908	24888	1-112
HHETD13	2386	858218	AC015908	24889	1-142
HHETF94	2389	793420	AL109942	24890	1-435
HHETF94	2389	793420	AL109942	24891	1-563
HHETM92	2391	790879	AC068285	24892	1-448
HHETM92	2391	790879	AC006270	24893	1-448
HHETR94	2394	793434	AC005158	24894	1-572
HHETS04	2395	926997	AC073347	24895	1-1239
HHETS04	2395	926997	AC073237	24896	1-1238
HHETS04	2395	926997	AC073347	24897	1-402
HHETS04	2395	926997	AC073347	24898	1-417
HHETS04	2395	926997	AC073237	24899	1-417
HHETS04	2395	926997	AC073237	24900	1-404
HHETU20	2396	858206	AC004127	24901	1-441
HHETU20	2396	858206	AC006078	24902	1-441
HHETU20	2396	858206	AC004127	24903	1-671
HHETU20	2396	858206	AC004127	24904	1-470
HHETU20	2396	858206	AC006078	24905	1-673
HHETU20	2396	858206	AC006078	24906	1-470
HHETV35	2397	784894	AC021946	24907	1-227
HHETV35	2397	784894	AC018554	24908	1-599
HHETV35	2397	784894	AC013629	24909	1-600
HHETV35	2397	784894	AC018554	24910	1-110
HHETV35	2397	784894	AC013629	24911	1-110
HHETY79	2399	774171	AC009714	24912	1-375
HHETY79	2399	774171	AC009714	24913	1-409
HHEUA62	2400	965709	AL355348	24914	1-136 431-1301 1574-1890 2156-2330 3985-5365 5682-5708 5717-6119 6345-6788 6825-7944 8078-8482 8672-8771 9055-9322 9382-9637 9954-10253 10384-10983

					11005-11412
					12555-13275
					13454-16555
HHEUA62	2400	965709	AC004913	24915	1-96
					468-616
					3289-3763
					7294-7456
					7730-8589
					8867-9183
					9449-9606
					11278-12658
					13010-13412
					13638-14081
					14118-15237
					15371-15775
					15965-16064
					16348-16615
					16680-16935
					17252-17551
					17682-18281
					18303-18710
					19837-20557
					20737-23885
HHEUA62	2400	965709	AL355348	24916	1-887
HHEUA62	2400	965709	AC004913	24917	1-887
HHEUA62	2400	965709	AC004913	24918	1-511
HHEUC84	2402	788954	AC024242	24919	1-1040
HHEUE01	2403	915274	AL138478	24920	1-331
HHEUE01	2403	915274	AL138478	24921	1-266
HHEUE86	2404	784879	AC007683	24922	1-1014
HHEUE86	2404	784879	AC007683	24923	1-178
HHEUE86	2404	784879	AC007683	24924	1-518
HHEUT33	2407	952043	AP001132	24925	1-132
					1113-1270
HHEUT33	2407	952043	AC069374	24926	1-132
					1113-1270
HHEUT33	2407	952043	AC009639	24927	1-132
					1113-1270
HHEUT33	2407	952043	AP001132	24928	1-272
HHEUT33	2407	952043	AC069374	24929	1-272
HHEUT33	2407	952043	AC009639	24930	1-272
HHEUY42	2408	918029	AC018650	24931	1-275
HHEUY42	2408	918029	AC018650	24932	1-358
HHEUY42	2408	918029	AC018650	24933	1-139
HHEVI06	2409	933921	AC005696	24934	1-312
					894-1496
					1717-2169
					2404-2489
					3048-3125
					3251-3641
					3886-4366
					5792-5982
					7187-7366
					7489-8631
					8784-9334
					9608-10006
					10384-10886

					11092-11321 13536-13654 14024-14207 14357-14896 14998-15466 17196-17361 18759-22655
HHEVI06	2409	933921	AC005696	24935	1-247
HHEVI06	2409	933921	AC005696	24936	1-136
HHEVN07	2411	952041	AC024596	24937	1-376
HHEVN07	2411	952041	AC025160	24938	1-376
HHEVR07	2412	952070	AL031727	24939	1-423
HHEVR07	2412	952070	AL031727	24940	1-213
HHEVR07	2412	952070	AL031727	24941	1-402
HHEVS95	2414	957950	AC008434	24942	1-104 759-1017 1308-1708 2238-2292 2639-2904
HHEVS95	2414	957950	AC022223	24943	1-118 636-2773 3163-3402 3702-4102 4637-4686 5053-5320
HHEVS95	2414	957950	AC022223	24944	1-405
HHEWL08	2418	957946	AC073256	24945	1-592
HHEWL08	2418	957946	AP001880	24946	1-593
HHEWL08	2418	957946	AP002367	24947	1-593
HHEWL08	2418	957946	AC073256	24948	1-782
HHEWL08	2418	957946	AP001880	24949	1-783
HHEWL08	2418	957946	AP002367	24950	1-782
HHEWU52	2420	935243	AC018889	24951	1-385
HHEWU52	2420	935243	AC018889	24952	1-807
HHEWU93	2421	973141	AC013819	24953	1-804 878-964 1465-1758
HHEWU93	2421	973141	AC013819	24954	1-1031
HHEWY63	2422	858114	AC021164	24955	1-419
HHEWY63	2422	858114	AC021164	24956	1-781
HHEWY63	2422	858114	AC021164	24957	1-164
HHEXK51	2424	932911	AC032033	24958	1-447
HHEXK51	2424	932911	AC023389	24959	1-453
HHEXK51	2424	932911	AC022169	24960	1-663
HHEXK51	2424	932911	AC022169	24961	1-609
HHEXK51	2424	932911	AC022169	24962	1-194
HHEXX06	2425	933858	AL157935	24963	1-1031
HHEXX06	2425	933858	AL157935	24964	1-1065
HHEXX06	2425	933858	AL157935	24965	1-1212
HHEXY05	2426	920532	AC073575	24966	1-226 318-470 1086-1734 1736-2011 2694-2801 3032-3272 3538-3693

					3738-4439 5595-6331 6537-6729 7287-7489 8137-8281 8310-8674 8946-9068 9215-9630 9740-9946 10048-10484 11483-11586 11859-12408 12816-14049 14337-14489 14868-15293 15662-15855 16133-16616 16644-19209
HHEXY05	2426	920532	AC073575	24967	1-565
HHEXY05	2426	920532	AC073575	24968	1-364
HHEYG35	2427	878225	AC068150	24969	1-491
HHEYG35	2427	878225	AC009124	24970	1-1865 2204-2841 2852-3002 3978-4167 4199-4848 4857-5047 5326-5711 6395-7491 7542-8684
HHEYG35	2427	878225	AC069176	24971	1-2043 2774-2931 3306-3456 4436-4544 4786-5285 7428-7628 7777-7916 8285-9116 10194-10355 10524-10631
HHEYG35	2427	878225	AC009125	24972	1-205
HHEYG35	2427	878225	AC005632	24973	1-7328 7470-7724 7771-11146 11485-12122 12133-12283 13033-14112 14121-14311 14585-14970 15649-16747 16798-17942 19013-19333 19345-19540 19928-20131 20158-20473 20666-21007 21434-21551

					21641-21720
					22027-22458
					22705-23044
					23291-23695
					23760-23892
					23974-24422
					24853-25689
					26187-27666
					27937-29564
					30398-31782
					32364-33592
					33765-34492
					35324-35517
					36002-36924
					36964-37328
					37337-38730
					38790-39214
					39733-40492
					40684-41238
					41762-41814
					42020-42224
					43110-43249
					44830-45166
					45535-45927
					46052-46333
					46981-47459
					48041-48203
HHEYG35	2427	878225	AC017077	24974	1-2042
					2773-2930
					3305-3455
					4428-4536
					4783-5273
					7408-7608
					7757-7896
					8265-9096
					10172-10333
					10502-10609
HHEYG35	2427	878225	AC009086	24975	1-5027
					5033-5860
					5865-7012
					7331-11015
					11354-11991
					12002-12152
					12594-12673
					13121-13970
					13979-14169
					14443-14829
					15515-16590
					16708-17046
					17418-17977
					18431-19263
					20329-20648
					20660-20855
					21243-21446
HHEYG35	2427	878225	AC003007	24976	1-5837
					5877-7328
					7470-7724

					7743-11146
					11485-12122
					12133-12283
					13033-14112
					14121-14311
					14585-14970
					15649-16747
					16798-17942
					19013-19333
					19345-19540
					19928-20131
					20158-20473
					20666-21007
					21434-21551
					21641-21720
					22027-22458
					22705-23044
					23291-23695
					23760-23892
					23974-24590
					24663-24715
					24741-24805
					24853-25689
					26187-27666
					27937-29579
					30398-31782
					32364-33592
					33765-34492
					35324-35517
					36002-36924
					36964-37328
					37337-38730
					38790-39337
					39961-40493
					40685-41239
					41763-41815
					42021-42225
					43111-43250
					43366-43700
					44831-45153
					45536-45928
					46046-46340
					46982-47460
					48042-48204
HHEYG35	2427	878225	AC009060	24977	1-2347
					2492-2570
					2646-3368
					3386-4076
					4456-4738
					4850-5103
					5144-8522
					8860-9497
					9507-9657
					10624-11475
					11484-11678
					11943-12328
					12448-13775
					14431-15515

					15708-15820
					16337-16896
					17242-18175
					19246-19566
					19578-19773
					20162-20365
HHEYG35	2427	878225	AC009125	24978	1-125
HHEYG35	2427	878225	AC005632	24979	1-997
HHEYG35	2427	878225	AC017077	24980	1-419
HHEYG35	2427	878225	AC009086	24981	1-3176 3281-4285
HHEYG35	2427	878225	AC069176	24982	1-419
HHEYG35	2427	878225	AC005632	24983	1-603
HHEYG35	2427	878225	AC009086	24984	1-317
HHEYG35	2427	878225	AC003007	24985	1-603
HHEYG35	2427	878225	AC003007	24986	1-4313
HHEYG35	2427	878225	AC009060	24987	1-325
HHEYG35	2427	878225	AC009060	24988	1-317
HHEYK30	2428	961960	AL050348	24989	1-172 555-810 1982-2226 2882-3144 3406-4453 4517-4636 5313-6567 7269-7395 7428-7512 9134-9205 9463-9519 10060-10123 10596-11439 12813-13055 13207-13267 13366-13429 14170-14431 16477-16705 17170-17249 18126-18495 18947-19003 19114-19490
HHEYK30	2428	961960	AL050348	24990	1-33 828-1176 1247-1486 1588-1892 1931-2394 2578-2680 3026-3347 3585-4108 4901-5152
HHEYK73	2429	847483	AC018751	24991	1-1499
HHEYK73	2429	847483	AC009516	24992	1-1499
HHEYK73	2429	847483	AC018751	24993	1-275
HHEYK73	2429	847483	AC018751	24994	1-321
HHEYK73	2429	847483	AC009516	24995	1-291
HHEYK73	2429	847483	AC009516	24996	1-250
HHEYP70	2430	861923	AC002399	24997	1-99 258-492

					506-541 726-1401 1429-1793 1937-3246 3288-3972
HHEYP70	2430	861923	AC009030	24998	1-156 1177-1295 1462-1635 2969-3133 3738-4546 5731-5831 5988-6222 6236-6271 6456-7131 7159-7523 7667-8976 9018-9702
HHEYP70	2430	861923	AC003010	24999	1-262 328-888 1546-1881 4185-4617 5714-6085 6347-6754 8487-8634 9487-9587 9637-9751 12900-13049 13944-14135 14178-14410 16132-16655 18275-18430 19451-19576 19736-19909 21243-21407 22012-22820 24005-24105 24262-24496 24510-24545 24730-25405 25433-25797 25941-27250 27292-27976
HHEYP70	2430	861923	AC002399	25000	1-809
HHEYP70	2430	861923	AC009030	25001	1-524
HHEYQ78	2431	963321	AF191252	25002	1-108 3175-3333 3834-3964 5093-5229 5720-5780 6064-6196 7806-8040 10528-10973 11378-11858 12312-12399 12416-12775 13299-13471 13505-13834

					14632-16425 16480-18637
HHEYV03	2432	922104	AL157707	25003	1-864 1621-2105
HHEYV03	2432	922104	AL390318	25004	1-863 1620-2104
HHEYV03	2432	922104	AC010161	25005	1-863 1620-2104
HHEYV03	2432	922104	AL390318	25006	1-320
HHEZJ38	2435	860048	AC023648	25007	1-650
HHEZP45	2436	952047	AC021571	25008	1-427 444-949
HHEZP45	2436	952047	AL137247	25009	1-427 444-949
HHEZP45	2436	952047	AL137247	25010	1-851
HHEZP54	2437	952367	AP000977	25011	1-795
HHEZP54	2437	952367	AC025321	25012	1-813
HHEZP54	2437	952367	AP002365	25013	1-813
HHFHP14	2438	960049	AC023257	25014	1-820
HHFHP14	2438	960049	AC023257	25015	1-409
HILBD61	2440	504130	AC073309	25016	1-537
HILBD61	2440	504130	AC008083	25017	1-152 389-854 1319-1802 1904-2186 3438-3902 3979-4690 4868-5346 8357-8682 9710-9833 10988-11600 11862-12095 12352-12435 12742-13278 13881-14574
HILBD61	2440	504130	AC073309	25018	1-84
HILBD61	2440	504130	AC008083	25019	1-272 314-1385
HILCD94	2441	887182	AC011375	25020	1-1048
HILCD94	2441	887182	AC011375	25021	1-674
HJAAM73	2443	530476	AC007249	25022	1-405 641-1060 1800-2293 3247-3358 4078-4378 6109-6730 6991-7885
HJAAM73	2443	530476	AC007249	25023	1-112
HJAAM73	2443	530476	AC007249	25024	1-227
HJAAT23	2444	530472	AC009095	25025	1-1233
HJAAT23	2444	530472	AC010530	25026	1-1233
HJAAT23	2444	530472	AC009095	25027	1-332
HJAAT23	2444	530472	AC009095	25028	1-576
HJAAT23	2444	530472	AC010530	25029	1-576
HJAAT23	2444	530472	AC010530	25030	1-332
HJAAU52	2445	530473	AC068670	25031	1-764

					818-2587 2883-3337
HJAAU52	2445	530473	AC068670	25032	1-149
HJAAU57	2446	661275	AC004762	25033	1-499
HJAAU57	2446	661275	AC004762	25034	1-109
HJAAV29	2447	669278	AC073473	25035	1-337
HJAAV29	2447	669278	AC037448	25036	1-337
HJAAV29	2447	669278	AL359681	25037	1-337
HJAAV29	2447	669278	AL109767	25038	1-337
HJAAV29	2447	669278	AC073473	25039	1-583
HJAAV29	2447	669278	AC073473	25040	1-1101
HJAAV29	2447	669278	AC037448	25041	1-583
HJAAV29	2447	669278	AC037448	25042	1-1101
HJAAV29	2447	669278	AL359681	25043	1-584
HJAAV29	2447	669278	AL359681	25044	1-1101
HJAAV29	2447	669278	AL109767	25045	1-1101
HJAAV29	2447	669278	AL109767	25046	1-583
HJAAV82	2448	738993	AC020632	25047	1-880 2547-3035 3072-3603 5656-6253 7346-7849 7942-8618 8975-9115 10374-10466 11145-11232 11959-12062 12227-12361 12561-13363 13522-14007 14162-14791 15430-15572 15711-15865 15998-16105 16619-18416
HJAAV82	2448	738993	AC022275	25048	1-880 2547-3035 3072-3603 5656-6253 7346-7849 7942-8618 8975-9115 10374-10466 11145-11232 11957-12051
HJAAV82	2448	738993	AC020632	25049	1-141
HJAAW48	2450	530641	AC015799	25050	1-809 838-1539 2333-2539
HJAAW48	2450	530641	AC015799	25051	1-568
HJABH14	2453	530463	AC025698	25052	1-661
HJABH14	2453	530463	AL355365	25053	1-662
HJABH14	2453	530463	AP001766	25054	1-662
HJABH14	2453	530463	AL355365	25055	1-299
HJABH14	2453	530463	AP001766	25056	1-299
HJABJ06	2454	954589	AL365193	25057	1-500

HJABJ06	2454	954589	AL023806	25058	1-500
HJABP04	2455	925557	AC015933	25059	1-505
HJABV57	2457	839528	AL137060	25060	1-631
HJABV57	2457	839528	AL137060	25061	1-638
HJABV57	2457	839528	AL137060	25062	1-1604
HJABW28	2458	958721	AC025145	25063	1-1195
HJABW28	2458	958721	AL354986	25064	1-986
HJABW28	2458	958721	AC004236	25065	1-1197
HJABW28	2458	958721	AC025145	25066	1-178
HJABW28	2458	958721	AL354986	25067	1-122
HJABW28	2458	958721	AC025145	25068	1-700
HJABW28	2458	958721	AL354986	25069	1-642
HJABW28	2458	958721	AC004236	25070	1-700
HJABW28	2458	958721	AC004236	25071	1-248
HJABY68	2460	861548	AC004229	25072	1-471 1088-1333
HJABY68	2460	861548	AC019071	25073	1-498 1115-1359
HJABY68	2460	861548	AC019071	25074	1-188
HJABZ52	2461	857454	AL121780	25075	1-173 907-1043 3082-3473 3821-4000 5007-5147 5430-6332 6493-7409
HJABZ52	2461	857454	AL035563	25076	1-173 910-1046 3079-3470 3818-3997 5002-5142 5425-6327 6488-7404
HJABZ52	2461	857454	AL121780	25077	1-441 1041-1405
HJABZ52	2461	857454	AL035563	25078	1-441 1041-1405
HJACF47	2468	507156	AL117328	25079	1-4732
HJACF47	2468	507156	AL117328	25080	1-783
HJACF47	2468	507156	AL117328	25081	1-112 180-754 1255-1481
HJACH86	2469	784634	AC002310	25082	1-347 931-1308 2036-2538 3545-3642 3751-3821 5240-5903 6936-7448 7570-7699 8678-9139 9490-9594 9661-9809 12051-12518 14662-14855 17326-17977 19068-19269

					20443-20931
					20981-21094
					21276-21574
					22358-23106
					23302-23470
					24336-24824
					25370-25610
					27193-27494
					27598-27751
					28469-28647
					28925-29307
					29669-29856
					30405-30709
					31913-32336
					32443-33001
					33292-33746
					34594-34880
					34999-35142
					35464-35756
					36209-36466
					36552-36796
					38647-38759
					39169-39245
					39335-39427
					39985-40414
					42057-42124
					42567-42656
					42686-42802
					43300-43395
					44104-44436
					45249-45371
					45934-45989
					46060-46538
					46866-47692
					48076-48257
					48722-49238
					49462-51469
HJADD60	2470	708664	Z98946	25083	1-803 1142-1460
HJADD60	2470	708664	AL354652	25084	1-803 1142-1460
HJADD60	2470	708664	Z98946	25085	1-261
HJADD60	2470	708664	Z98946	25086	1-367
HJADD60	2470	708664	AL354652	25087	1-367
HJADD60	2470	708664	AL354652	25088	1-170
HJBAB01	2471	961088	AC055843	25089	1-32 326-473 720-1043 1328-3458 3808-3924 4376-5138
HJBAB01	2471	961088	AC027447	25090	1-1439
HJBAB01	2471	961088	AC027447	25091	1-119 570-1332
HJBAD34	2472	508225	AC005156	25092	1-75 210-244 676-737

					1197-1292
					2540-2624
					3457-4334
					5676-5802
					6374-6668
					7168-7566
					8477-9182
					9877-10179
					10809-11521
					11664-11764
					12167-15152
					15313-17601
HJBAD34	2472	508225	AC005156	25093	1-384
HJBAX43	2475	929793	AC000065	25094	1-351
HJBAX43	2475	929793	AC000065	25095	1-1390
HJBAX43	2475	929793	AC000065	25096	1-51
					631-1065
					4880-5015
					7801-8397
HJBBD13	2476	765075	AC027811	25097	1-297
HJBBD13	2476	765075	AC027811	25098	1-884
HJBBD13	2476	765075	AC027811	25099	1-315
HJBDB28	2478	839067	AC016301	25100	1-150
					482-561
					575-678
					1003-1384
					1683-1746
HJBDB28	2478	839067	AL121990	25101	1-152
					1685-1746
HJBDB28	2478	839067	AC016033	25102	1-342
HJBDB28	2478	839067	AC018348	25103	1-3387
HJBDB28	2478	839067	AC016301	25104	1-541
HJBDB28	2478	839067	AC016033	25105	1-3005
HJBDB28	2478	839067	AC016033	25106	1-130
HJBDB28	2478	839067	AC018348	25107	1-130
HJBDL14	2480	960109	AC073580	25108	1-565
HJBDL14	2480	960109	AC073580	25109	1-484
HJBDL14	2480	960109	AC073580	25110	1-487
					615-1002
HJPAH35	2482	509162	AC010245	25111	1-359
HJPAH35	2482	509162	AC008587	25112	1-359
HJPAH35	2482	509162	AC008488	25113	1-35
					717-1665
					1802-2676
					2780-3148
					3690-4048
					4218-4865
					5698-6556
HJPAH35	2482	509162	AC026424	25114	1-359
HJPAH35	2482	509162	AC010245	25115	1-648
HJPAH35	2482	509162	AC008587	25116	1-648
HJPAH35	2482	509162	AC008488	25117	1-883
HJPAH35	2482	509162	AC010245	25118	1-369
HJPAH35	2482	509162	AC008587	25119	1-369
HJPAH35	2482	509162	AC026424	25120	1-369
HJPAH35	2482	509162	AC026424	25121	1-648

HJPAT51	2483	730875	AC016742	25122	1-421 432-544
HJPAT51	2483	730875	AC012551	25123	1-421 432-544
HJPAT51	2483	730875	AC016742	25124	1-296
HJPAT51	2483	730875	AC012551	25125	1-296
HLADA89	2488	786490	AP000792	25126	1-193 1148-1275 2551-2736 3671-5013 5492-6243 6335-6686 6721-6874 6900-8860 9015-12547 12555-13382 13593-14141 15009-15401 16139-16281
HLADA89	2488	786490	AP001273	25127	1-193 1148-1275 2551-2736 3672-5014 5493-6244 6336-6686 6721-6874 6900-8861 9016-12551 12559-13386 13597-14145 15013-15405 16143-16285
HLADA89	2488	786490	AP001886	25128	1-193 1148-1275 2551-2736 3672-5014 5493-6244 6336-6687 6722-6875 6901-8862 9017-12551 12559-13386 13597-14145 15013-15405 16143-16285
HLADA89	2488	786490	AP000792	25129	1-357
HLADA89	2488	786490	AP001273	25130	1-357
HLADA89	2488	786490	AP001886	25131	1-357
HLCDB78	2489	760896	AC015541	25132	1-210 416-623 845-1481 1820-2565 3128-3565 3626-4034 4318-4416
HLCDB78	2489	760896	AC018501	25133	1-210 416-623

					845-1481
					1820-2565
					3128-3565
					3626-4034
					4318-4416
HLCDB78	2489	760896	AC018816	25134	1-210
					416-623
					845-1481
					1820-2565
					3128-3565
					3626-4034
					4318-4416
HLCDB78	2489	760896	AC015541	25135	1-382
HLCDB78	2489	760896	AC018501	25136	1-382
HLCDB78	2489	760896	AC018816	25137	1-382
HLKDB22	2492	766876	AC000123	25138	1-1146
HLKDB22	2492	766876	AC000123	25139	1-500
HLKDB22	2492	766876	AC000123	25140	1-451
HLMAC43	2495	799766	AC022326	25141	1-370
HLMAC43	2495	799766	AC067976	25142	1-373
HLMAC43	2495	799766	AC067976	25143	1-250
HLMAC43	2495	799766	AC022326	25144	1-416
HLMAC43	2495	799766	AC067976	25145	1-416
HLMAE83	2498	530107	AL157832	25146	1-344
HLMAE83	2498	530107	AC011849	25147	1-344
HLMAE83	2498	530107	AL353725	25148	1-876
					2177-2523
					4839-5182
					13019-13066
					13181-13317
					13434-13565
					23199-23595
					27931-28283
					43656-43683
					43955-43998
					44845-50885
HLMAE83	2498	530107	AL353725	25149	1-189
HLMAH45	2499	954125	AC012645	25150	1-1088
					1144-1335
					1359-3613
					3745-4027
					4161-5054
					5477-5961
					7414-7815
					8151-8591
					8951-9481
HLMAH45	2499	954125	AC012645	25151	1-421
HLMAH60	2500	856858	AC016630	25152	1-131
					331-1019
					1089-1459
					1583-1820
					2211-2492
					3034-3637
					3704-3829
					3953-4106
					4216-4336
					4394-4516

					4659-4835
					4880-6695
HLMAH60	2500	856858	AC016630	25153	1-214
					342-626
					682-877
					1513-4063
HLMAJ54	2501	811183	AC007041	25154	1-635
HLMAJ54	2501	811183	AC007041	25155	1-1389
HLMAJ84	2502	615300	AC020635	25156	1-297
HLMAU43	2505	856884	AC009130	25157	1-404
HLMAU43	2505	856884	AC009093	25158	1-403
HLMAU43	2505	856884	AC007615	25159	1-402
HLMAU43	2505	856884	AC009130	25160	1-248
HLMAU43	2505	856884	AC009130	25161	1-563
HLMAU43	2505	856884	AC009093	25162	1-563
HLMAU43	2505	856884	AC009093	25163	1-314
HLMAU43	2505	856884	AC007615	25164	1-563
HLMAU43	2505	856884	AC007615	25165	1-314
HLMAU70	2506	732665	AC018843	25166	1-470
HLMAU70	2506	732665	AC011599	25167	1-470
HLMAU70	2506	732665	AC018505	25168	1-470
HLMAU70	2506	732665	AC022377	25169	1-470
HLMAU70	2506	732665	AC018831	25170	1-470
HLMAU70	2506	732665	AC018843	25171	1-803
HLMAU70	2506	732665	AC018843	25172	1-406
HLMAU70	2506	732665	AC011599	25173	1-803
HLMAU70	2506	732665	AC011599	25174	1-406
HLMAU70	2506	732665	AC018505	25175	1-406
HLMAU70	2506	732665	AC022377	25176	1-406
HLMAU70	2506	732665	AC018505	25177	1-803
HLMAU70	2506	732665	AC022377	25178	1-803
HLMAU70	2506	732665	AC018831	25179	1-803
HLMAU70	2506	732665	AC018831	25180	1-406
HLMAV62	2507	671905	AC002073	25181	1-441
HLMAV62	2507	671905	AC002073	25182	1-267
HLMAV62	2507	671905	AC002073	25183	1-275
HLMAZ06	2508	960557	AC073342	25184	1-484
					1740-2022
					2355-2519
					2775-2879
					3127-3523
					5054-5153
					5424-5602
					7138-7565
					7576-8011
					8373-8517
					10753-10886
					11033-11126
					11212-11269
					12534-13333
					13387-13940
					14611-14788
					15501-15615
					15766-17026
HLMBB25	2512	792549	AL031658	25185	1-59
					1870-2158

					3310-3451 6512-6570 7398-7548 9646-9774 10350-10490 10887-11166 11653-12831
HLMBB25	2512	792549	AL031658	25186	1-57 1094-1182 4477-4646 7375-7417
HLMBB43	2513	530611	AC027687	25187	1-109 498-908 1750-2095 2229-2650
HLMBB43	2513	530611	AC020663	25188	1-109 498-908 1750-2095 2229-2650
HLMBB43	2513	530611	AC027687	25189	1-86
HLMBB43	2513	530611	AC027687	25190	1-541
HLMBB43	2513	530611	AC020663	25191	1-541
HLMBB56	2514	968209	AC021310	25192	1-333
HLMBB56	2514	968209	AC021310	25193	1-89
HLMBB80	2516	950730	AL157704	25194	1-384
HLMBB80	2516	950730	AL136320	25195	1-583
HLMBB80	2516	950730	AL136320	25196	1-741
HLMBF68	2517	753614	AL035209	25197	1-401
HLMBF68	2517	753614	AL035209	25198	1-632
HLMBQ77	2519	954969	AC025959	25199	1-471 1201-2264
HLMBQ77	2519	954969	AC025963	25200	1-471 1201-2263
HLMBQ77	2519	954969	AC009451	25201	1-471 1201-2263
HLMBQ77	2519	954969	AC009451	25202	1-84
HLMBU64	2520	577608	AC012589	25203	1-351
HLMBU64	2520	577608	AC010232	25204	1-351
HLMBU82	2521	799755	AL360017	25205	1-649
HLMBU82	2521	799755	AL035413	25206	1-649
HLMBU82	2521	799755	AC026576	25207	1-649
HLMBU82	2521	799755	AL360017	25208	1-522
HLMBU82	2521	799755	AL035413	25209	1-121
HLMBU82	2521	799755	AC026576	25210	1-522
HLMBU82	2521	799755	AL035413	25211	1-522
HLMBU82	2521	799755	AC026576	25212	1-121
HLMBV11	2522	967669	AC017085	25213	1-461
HLMBV11	2522	967669	AC023261	25214	1-461
HLMBV11	2522	967669	AC024896	25215	1-461
HLMBV11	2522	967669	AC023261	25216	1-95
HLMBV11	2522	967669	AC024896	25217	1-95
HLMBV11	2522	967669	AC017085	25218	1-95
HLMBV14	2523	682023	AC068198	25219	1-474
HLMBV14	2523	682023	AC068198	25220	1-279
HLMBV72	2525	688069	AC069475	25221	1-285
HLMBV72	2525	688069	AL137060	25222	1-285

HLMBV72	2525	688069	AC069475	25223	1-481
HLMBV72	2525	688069	AL137060	25224	1-481
HLMBW11	2526	950728	AL096870	25225	1-185 393-1743 1951-2118 2229-2295 2410-2906 3043-3107 3238-3519 3594-3970
HLMBW11	2526	950728	AL096870	25226	1-1080 2072-2811
HLMBX06	2527	954576	AC008397	25227	1-1417
HLMBX06	2527	954576	AC008397	25228	1-192
HLMBY16	2529	531053	AL078633	25229	1-198
HLMBZ31	2530	967640	AC022993	25230	1-280
HLMBZ31	2530	967640	AC022993	25231	1-281
HLMBZ47	2531	577605	AP001522	25232	1-667
HLMBZ47	2531	577605	AC018747	25233	1-667
HLMBZ47	2531	577605	AP001522	25234	1-457
HLMBZ47	2531	577605	AC018747	25235	1-435
HLMBZ47	2531	577605	AP001522	25236	1-431
HLMBZ47	2531	577605	AC018747	25237	1-603 2189-2566 2869-3048 3458-3794 4041-4110
HLMBZ73	2532	531401	AC015795	25238	1-222
HLMCJ32	2535	799767	AL118506	25239	1-1188
HLMCJ32	2535	799767	AL118506	25240	1-116 1203-1285 4029-4179 7624-8237 8401-8554 9885-10375 10551-10597 10670-11153 11378-11948 12117-15641 16617-17009 17555-17862 18218-18578 19096-19540 21099-21381 21530-22683 22861-23118 23399-23975 24033-24223 24373-26277
HLMCJ32	2535	799767	AL118506	25241	1-305
HLMCJ64	2536	739397	AC005839	25242	1-532
HLMCJ66	2537	707231	AC017030	25243	1-398
HLMCJ66	2537	707231	AC020916	25244	1-398
HLMCJ66	2537	707231	AC017030	25245	1-249
HLMCJ66	2537	707231	AC020916	25246	1-249
HLMCJ66	2537	707231	AC020916	25247	1-281

HLMCT79	2544	916590	AL353194	25248	1-653
HLMCT79	2544	916590	AL353194	25249	1-517
HLMCT79	2544	916590	AL353194	25250	1-463
HLMDF52	2549	571415	AC037448	25251	1-280
HLMDF52	2549	571415	AC073473	25252	1-280
HLMDF52	2549	571415	AL109767	25253	1-280
HLMDH54	2550	527128	Z82206	25254	1-934
HLMDH54	2550	527128	Z82206	25255	1-308
HLMDH78	2551	532741	AL136295	25256	1-139 694-1120 1153-1281 1351-1406 1533-1638 1880-3131 3195-3311 3377-3719 3812-4288 4724-5441
HLMDH78	2551	532741	AL136295	25257	1-498 1382-2440 2478-2552 2687-2807 2898-3908 3997-6701 6930-6989 7089-7160 7257-7461 7690-7871 8346-8985 9053-9669 9771-9954 10070-10762 10815-10862 11189-11425 12126-12257 12711-13142 13165-13617 13697-13799 13889-13978 14875-15081 15574-15690 15806-15937 16010-16299 16426-16487 16529-17871 17951-18248 18425-18949
HLMDH78	2551	532741	AL136295	25258	1-130
HLMDJ37	2552	577239	AL096768	25259	1-74 380-965 1125-1201 2584-2689 3054-3156 3282-3838 3955-4291 7399-7930 7946-8663

					9397-9471 9609-11538 12770-13136 13255-16973 17251-18418 18933-19079 19928-20107 21835-22338 24262-24474 25112-25155 25865-26276 27019-27082
HLMDJ37	2552	577239	AL096768	25260	1-507
HLMDJ37	2552	577239	AL096768	25261	1-243
HLMDN83	2554	799742	AC012476	25262	1-88 763-879 2684-2767 2908-3152 3716-3756 3897-4382 4873-4954 5472-6238 6864-7637 7992-8523 9533-9883 10047-10429 10435-10704 11248-12336 12691-12980 13110-14157 14703-14886 15095-15257 15394-15421
HLMDN83	2554	799742	AC012476	25263	1-201
HLMDN83	2554	799742	AC012476	25264	1-250
HLMDO18	2556	527896	AL021686	25265	1-591
HLMDO18	2556	527896	AL096755	25266	1-591
HLMDO18	2556	527896	AL021686	25267	1-430
HLMDO18	2556	527896	AL096755	25268	1-430
HLMDO61	2557	584982	AL365205	25269	1-153
HLMDO65	2558	742749	AC011498	25270	1-72 1618-1905 1909-2408 3106-3274 3678-3746 4703-4837 5112-5399 6411-6925 7002-7103 7376-7781 7935-8414 8529-8885 9214-9719 10278-10365 10481-10703 10785-12210
HLMDO65	2558	742749	AF190465	25271	1-500

					1199-1363
					1757-1825
					2782-2916
					3191-3478
					4479-5003
					5411-5859
					6013-6492
					6607-6963
					7292-7797
					8356-8443
					8559-8781
					8863-10288
					11880-12360
					12417-12725
					12938-13035
					13189-13266
					13353-13524
					13527-13644
					14837-15463
					15482-15705
					16288-16565
					17384-17514
					18739-19170
					20912-21289
					22057-22210
					23075-23332
					24640-24734
					25493-25574
					25676-25847
					26392-26620
					27558-27653
					28699-29114
					31417-31485
					31894-31999
					32493-32713
					32994-33094
					36593-36695
					36766-36871
					39104-39209
					41938-42024
					43291-43616
					44192-44423
					45591-46414
					49178-49428
					49665-49765
					52082-52616
HLMDO65	2558	742749	AC011498	25272	1-480
					538-846
					1059-1159
HLMDO65	2558	742749	AF190465	25273	1-135
HLMDO65	2558	742749	AF190465	25274	1-286
HLMDP35	2559	535500	AC023230	25275	1-1185
					1190-2968
					3139-3219
					3401-3612
					3680-4094
HLMDP35	2559	535500	AC023230	25276	1-940

					1013-1157 1230-1679 1739-3513 3602-3782 3869-4022 4120-4274 4350-4663 4949-5092 5482-5550 5629-5742 5855-5932 6070-6130 6253-7016
HLMDQ37	2560	531232	Z83844	25277	1-140 1119-1812 3220-3503 5491-5546 5734-6209 6554-7012 7250-7630 8110-8138 8218-8705 8819-8910 9270-9380 9929-10022 10895-11227 11333-11860 12876-12981 13104-14070
HLMDQ37	2560	531232	Z83844	25278	1-517
HLMDQ40	2561	531234	AC012086	25279	1-526
HLMDQ40	2561	531234	AC022001	25280	1-526
HLMDQ40	2561	531234	AC018811	25281	1-526
HLMDQ40	2561	531234	AC018494	25282	1-526
HLMDQ40	2561	531234	AC012086	25283	1-302
HLMDQ40	2561	531234	AC012086	25284	1-528
HLMDQ40	2561	531234	AC018811	25285	1-302
HLMDQ40	2561	531234	AC018494	25286	1-302
HLMDQ40	2561	531234	AC018494	25287	1-528
HLMDT17	2566	531231	AL365437	25288	1-296
HLMDT17	2566	531231	AL158138	25289	1-296
HLMDT17	2566	531231	AL050337	25290	1-296
HLMDU04	2567	571393	AC024028	25291	1-290
HLMDU04	2567	571393	AC024028	25292	1-587
HLMDU04	2567	571393	AC024028	25293	1-322
HLMDU07	2568	930471	AC010894	25294	1-502
HLMDU07	2568	930471	AC010894	25295	1-380
HLMDU07	2568	930471	AC010894	25296	1-288
HLMDU54	2571	856877	AC023257	25297	1-940
HLMDU54	2571	856877	AC023257	25298	1-288
HLMDU54	2571	856877	AC023257	25299	1-275
HLMDU71	2572	531228	AC040975	25300	1-160
HLMDU71	2572	531228	AC037465	25301	1-174
HLMDV96	2574	934543	AC027741	25302	1-540 851-1143 1163-1645

					1870-3272
					3616-4157
					4213-4287
					4712-5574
					7416-7496
HLMDV96	2574	934543	AC034199	25303	1-540
					851-1144
					1164-1646
					1871-3258
					3619-4160
					4216-4290
					4715-5577
					7379-7476
					8023-8700
					8786-8852
					8970-9054
					9100-9487
					10513-10885
					12867-12891
					13114-13224
					14721-14752
					16197-16933
					17094-17635
					17691-17821
					18749-19392
					20883-21548
					22494-22739
					23284-24570
					24971-25301
					25676-26051
					27036-28731
HLMDV96	2574	934543	AC027741	25304	1-678
HLMDV96	2574	934543	AC034199	25305	1-723
HLMDX46	2577	523771	AC016092	25306	1-300
HLMDX46	2577	523771	AC023483	25307	1-300
HLMDX46	2577	523771	AC018822	25308	1-300
HLMDX46	2577	523771	AC016092	25309	1-1103
					1112-1580
					1582-3307
					3559-3878
					4183-4531
					6310-6579
HLMDX46	2577	523771	AC023483	25310	1-1103
					1112-1580
					1582-1619
					1629-3406
					3541-3952
HLMDX46	2577	523771	AC018822	25311	1-1102
HLMDY24	2580	531219	AC002400	25312	1-491
HLMDY24	2580	531219	AC002400	25313	1-386
HLMDY24	2580	531219	AC002400	25314	1-607
HLMDY48	2581	666518	AC073583	25315	1-243
HLMDY48	2581	666518	AC073583	25316	1-489
HLMDY56	2582	518410	AC011557	25317	1-147
					271-566
					771-1302
					1622-1788

					2303-2694 2737-3114 3154-3355 3429-3594 3597-3699 4636-5017 5540-5652 5744-6207 6253-6436 6606-6777 8671-9130 9556-9903 10066-10222 10285-10630 11287-11639 12551-12791 13596-13692 13968-15477 15653-16113 16199-16356 16881-17677
HLMDY56	2582	518410	AC024182	25318	1-1503 1678-2145
HLMDY56	2582	518410	AC011557	25319	1-183
HLMDY56	2582	518410	AC024182	25320	1-158
HLMDY56	2582	518410	AC024182	25321	1-380
HLMFB58	2585	577643	AC019337	25322	1-1179 1376-1942 2514-2622 3029-3150 4540-4935 6202-6670
HLMFB58	2585	577643	AC020945	25323	1-1182 1379-1947 2520-2659 2968-3016 3022-3160 4558-4953 6172-6642 7117-7638 8061-8214 8564-9143 12035-12482 12676-12812 13186-14525
HLMFB58	2585	577643	AC019337	25324	1-1565 1891-2143 3278-3351 3437-3552 3927-4051 4254-4565 4671-4997 5605-5707 5775-6170 8380-8633 8773-9840
HLMFB58	2585	577643	AC020945	25325	1-660

HLMFB58	2585	577643	AC020945	25326	1-23 388-695 728-1054 1319-4450 4771-5027 6164-6237 6323-6440 6815-6939 7143-7455 7561-7887 8495-8597 8661-9058 11269-11522 11657-12730
HLMFG58	2587	573130	AL049542	25327	1-355
HLMFG58	2587	573130	AL049542	25328	1-213
HLMFG58	2587	573130	AL049542	25329	1-340
HLMFG66	2588	676040	AC012459	25330	1-1079
HLMFG66	2588	676040	AC012459	25331	1-1551 1884-3089
HLMFH74	2589	671941	AL161632	25332	1-469
HLMFH74	2589	671941	AC022185	25333	1-470
HLMFH74	2589	671941	AL353768	25334	1-470
HLMFH74	2589	671941	AC022185	25335	1-304
HLMFH74	2589	671941	AL161632	25336	1-304
HLMFH74	2589	671941	AC022185	25337	1-540
HLMFH74	2589	671941	AL353768	25338	1-185 3334-3762 4376-4882 7098-8169 8503-8611 8647-8746 9378-9688 9753-10241 10792-11372
HLMFH74	2589	671941	AL353768	25339	1-304
HLMFK45	2591	531222	AL390026	25340	1-285
HLMFK45	2591	531222	AL133543	25341	1-285
HLMFK45	2591	531222	AL390026	25342	1-719 1816-1941 4595-4682 5226-5363
HLMFK45	2591	531222	AL390026	25343	1-662
HLMFK45	2591	531222	AL133543	25344	1-719 1816-1941 4595-4682 5226-5341
HLMFK45	2591	531222	AL133543	25345	1-662
HLMFK70	2593	856861	AC005486	25346	1-329
HLMFK70	2593	856861	AC005486	25347	1-629 761-861 1430-1721 1778-1897 1907-2034 2358-3364 3666-3782 3968-4099

HLMFK70	2593	856861	AC005486	25348	1-1265
HLMFK92	2594	571369	AC023785	25349	1-3310 4086-4181 4545-4708 5526-5658 5990-6169 6216-6425 7119-7521 8025-8730 9812-11445
HLMFK92	2594	571369	AC023785	25350	1-398
HLMFK92	2594	571369	AC023785	25351	1-204 1190-1673
HLMFN24	2596	781780	AC022262	25352	1-736
HLMFN24	2596	781780	AC026053	25353	1-736
HLMFN24	2596	781780	AF161326	25354	1-736
HLMFN24	2596	781780	AC022262	25355	1-113
HLMFN24	2596	781780	AC026053	25356	1-113
HLMFN24	2596	781780	AC022262	25357	1-384
HLMFN24	2596	781780	AC026053	25358	1-382
HLMFN24	2596	781780	AF161326	25359	1-384
HLMFN68	2597	799751	AC027040	25360	1-85 2126-2324 2795-3018 3771-4018 4029-4670 5125-6066 6070-6205 6728-6851 6859-7454 7630-8683 9075-9251 9417-9552
HLMFN68	2597	799751	AC011189	25361	1-407 3941-4131 4481-4632 5247-5319 5592-5669 5751-5849 6125-6212 6641-6793 7398-7650 7764-8264 10174-10233 10281-10892 12024-12139 12733-12819 13781-13865 15748-15950 16421-16644 17397-17644 17655-18300 18755-19695 19715-19818 20233-20331 20488-21082 21375-22312

					22704-22880 23046-23181
HLMFN68	2597	799751	AC011189	25362	1-125
HLMFN68	2597	799751	AC027040	25363	1-124
HLMFN68	2597	799751	AC011189	25364	1-267
HLMFU13	2601	657283	AL121656	25365	1-291
HLMFU13	2601	657283	AC017008	25366	1-291
HLMFU13	2601	657283	AL133246	25367	1-291
HLMFU13	2601	657283	AL121656	25368	1-355
HLMFU13	2601	657283	AC017008	25369	1-405
HLMFU13	2601	657283	AL121656	25370	1-405
HLMFU13	2601	657283	AC017008	25371	1-355
HLMFU13	2601	657283	AL133246	25372	1-355
HLMFU13	2601	657283	AL133246	25373	1-405
HLMFU39	2602	856872	AL160275	25374	1-459
HLMFU39	2602	856872	AL160275	25375	1-213
HLMFU39	2602	856872	AL160275	25376	1-117
HLMFU52	2603	727197	AC011040	25377	1-330
HLMFU52	2603	727197	AC024107	25378	1-322
HLMFU52	2603	727197	AC021650	25379	1-330
HLMGK50	2607	927675	AC027207	25380	1-488
HLMGK50	2607	927675	AC023328	25381	1-488
HLMGK50	2607	927675	AC023006	25382	1-489
HLMGK50	2607	927675	AC023328	25383	1-314
HLMGK50	2607	927675	AC023006	25384	1-314
HLMGP96	2609	531225	AL139341	25385	1-259
HLMGP96	2609	531225	AC016744	25386	1-259
HLMGP96	2609	531225	AL162742	25387	1-259
HLMGP96	2609	531225	AL139341	25388	1-717 1375-1674 2141-3121 3488-3541 3770-5351
HLMGP96	2609	531225	AC016744	25389	1-717 1374-1673 2140-3119 3487-3540 3769-5351
HLMGP96	2609	531225	AL162742	25390	1-717 1375-1674 2141-3121 3489-3542 3771-5352
HLMGY13	2610	921457	AC040898	25391	1-343
HLMGY13	2610	921457	AC025063	25392	1-343
HLMGY13	2610	921457	AC040898	25393	1-101
HLMGY13	2610	921457	AC025063	25394	1-232
HLMGY13	2610	921457	AC025063	25395	1-549
HLMGZ09	2611	625638	AC002557	25396	1-172 1198-1769 2291-3272 3399-3859 3964-4243 5023-5093
HLMGZ09	2611	625638	AC005180	25397	1-172 1197-1767

					2288-3269 3396-3852 3939-4236 5016-5086
HLMGZ09	2611	625638	AC002557	25398	1-155
HLMGZ33	2612	805813	AC007952	25399	1-598
HLMGZ33	2612	805813	AJ009617	25400	1-598
HLMGZ33	2612	805813	AC007952	25401	1-483
HLMGZ33	2612	805813	AJ009617	25402	1-221
HLMGZ33	2612	805813	AC007952	25403	1-291
HLMGZ33	2612	805813	AJ009617	25404	1-483
HLMHD65	2613	799736	AL022331	25405	1-345
HLMHG83	2614	799770	AC008763	25406	1-558
HLMHG83	2614	799770	AC008763	25407	1-134
HLMHG83	2614	799770	AC008763	25408	1-129
HLMHH39	2616	823450	AC006117	25409	1-513
HLMHH39	2616	823450	AC006117	25410	1-193
HLMHH39	2616	823450	AC006117	25411	1-301 470-944
HLMHK16	2619	571414	AL138713	25412	1-366
HLMHK16	2619	571414	AL158054	25413	1-366
HLMHK16	2619	571414	AL158054	25414	1-268
HLMHK16	2619	571414	AL138713	25415	1-268
HLMHK58	2620	799782	AC018567	25416	1-458
HLMHK58	2620	799782	AP001590	25417	1-458
HLMHK58	2620	799782	AC018931	25418	1-458
HLMHK58	2620	799782	AC018567	25419	1-581
HLMHK58	2620	799782	AP001590	25420	1-581
HLMHK58	2620	799782	AC018931	25421	1-581
HLMHK58	2620	799782	AC018567	25422	1-119
HLMHK58	2620	799782	AP001590	25423	1-888 1234-1717
HLMHK58	2620	799782	AC018931	25424	1-119
HLMHK61	2621	856848	AC023836	25425	1-359
HLMHK61	2621	856848	AC023831	25426	1-640
HLMHK61	2621	856848	AC009133	25427	1-640
HLMHK61	2621	856848	AC002301	25428	1-640
HLMHK61	2621	856848	AC023831	25429	1-265
HLMHK61	2621	856848	AC009133	25430	1-265
HLMHK61	2621	856848	AC002301	25431	1-265
HLMHM63	2624	578838	AC009068	25432	1-549
HLMHM63	2624	578838	AC009068	25433	1-481
HLMHN27	2626	856846	AL139287	25434	1-889 1042-1980 2117-2203 2585-2678 2760-2924 3010-3118 3172-3484 3550-3694 3784-4805 5026-5075 5858-6029 6103-6255 6436-6640 6737-6905

					6990-7114
HLMHN31	2627	925730	AL356276	25435	1-67
					144-272
					1219-1667
					2100-2347
					2811-3072
					3171-4723
					5124-5402
					6180-6659
					7445-7624
					10198-10420
					10457-10857
					14947-15326
					18229-19497
					20891-21497
					21524-22678
					22937-23169
					23202-24250
					26053-26410
HLMHN45	2629	668906	AC009065	25436	1-363
					437-591
					709-833
					957-1301
					1318-1541
					1646-1946
					2757-2961
					3534-4327
					4733-4979
					5390-5876
					6110-6189
					6387-6610
					7121-7542
					7620-8035
					8982-9489
					9595-11361
					11449-11755
					11835-11975
					12047-12353
					12588-12772
					12945-13073
					13211-13624
					13645-13759
					14053-14437
					14520-14905
					14974-15181
					15249-15693
					15885-16210
					16213-16599
					18311-18408
					18486-18670
					18893-18945
					19009-20965
					21019-21236
					21320-21476
					21488-21734
					21875-22153
					22160-23211

					23224-23531
				.	23545-23803
					23980-24135
					24143-24357
					24431-24768
HLMHN45	2629	668906	AC005600	25437	1-139
					1786-1871
					4725-4774
					4777-4835
					4876-5093
					5102-5458
					5679-6022
					6786-7277
					7582-7627
					8026-8157
					8493-8563
					10130-10258
					10927-11029
					12054-12201
					13070-13663
					13885-14461
					14701-15358
					15658-15812
					15947-16824
					16886-17023
					17617-17838
					18936-19057
					19943-20247
					20727-20855
					20877-21169
					21841-21976
					22903-23009
					23177-23325
					23632-23692
					23995-24200
					24241-24372
					24575-24949
					25589-25781
					26279-26942
					27191-27286
					27462-27563
					27884-27913
					28076-28429
					29463-29945
					30230-30592
					30666-30820
					30938-31062
					31186-31530
					31547-31770
					31885-32171
					32986-33190
					33763-34556
					34962-35208
					35619-36105
					36339-36418
					36616-36839
					37350-37771
					37849-38264

					39210-39717
					39823-41589
					41677-41983
					42063-42203
					42275-42581
					42849-43033
					43206-43334
					43472-43885
					43906-44020
					44314-44522
					44781-45166
					45239-45299
					45332-45442
					45510-45954
					46146-46471
					46474-46860
					48572-48669
					48747-48931
					49154-49206
					49270-51226
					51280-51495
					51581-51737
					51749-51995
					52136-52414
					52421-53472
					53485-53792
					53806-54064
					54241-54297
HLMHN45	2629	668906	AC009065	25438	1-483
HLMHN45	2629	668906	AC005600	25439	1-256
					318-581
					1955-2076
					3753-3913
					4816-4988
					6189-6881
					7895-8017
HLMHO21	2631	799772	AC078912	25440	1-314
HLMHO33	2632	799756	AC037448	25441	1-967
HLMHO33	2632	799756	AC073473	25442	1-965
HLMHO33	2632	799756	AL359681	25443	1-967
HLMHP67	2633	967636	AC073936	25444	1-245
HLMHP67	2633	967636	AC009091	25445	1-457
HLMHP67	2633	967636	AC008693	25446	1-457
HLMHP67	2633	967636	AC034250	25447	1-319
HLMHP67	2633	967636	AC073784	25448	1-285
HLMHP67	2633	967636	AC022123	25449	1-353
HLMHP67	2633	967636	AC013401	25450	1-457
HLMHP67	2633	967636	AC034250	25451	1-137
HLMHP74	2634	953956	AC016586	25452	1-356
HLMHP74	2634	953956	AC011488	25453	1-66
					643-997
					1259-1415
					1510-2392
					2566-3014
					3753-4187
					4379-5091
					5510-5640

					6095-6458 6713-6845 7169-7219 7421-7446 7674-8054 8627-9165 9527-10081 10981-12638
HLMHP74	2634	953956	AC034201	25454	1-355
HLMHP74	2634	953956	AC016586	25455	1-228
HLMHP74	2634	953956	AC011488	25456	1-280
HLMHP74	2634	953956	AC011488	25457	1-278
HLMHR55	2636	825530	AF279339	25458	1-414 2004-2328 2592-2765 3243-4022 4044-4704 5334-5457 5741-5845 7079-7269 7801-7929 8638-8795
HLMHR55	2636	825530	AF279339	25459	1-191 2605-2880
HLMHS31	2637	752375	AC023476	25460	1-860
HLMHS31	2637	752375	AP001979	25461	1-860
HLMHS31	2637	752375	AC023474	25462	1-860
HLMHS31	2637	752375	AC023476	25463	1-538
HLMHS31	2637	752375	AP001979	25464	1-539
HLMHS31	2637	752375	AC023474	25465	1-539
HLMHT94	2641	531054	AL161447	25466	1-319
HLMHT94	2641	531054	AL161453	25467	1-319
HLMHZ59	2646	530071	AC011276	25468	1-295
HLMHZ59	2646	530071	AC011988	25469	1-196
HLMHZ59	2646	530071	AC011276	25470	1-150
HLMIC94	2647	710391	AC068676	25471	1-330
HLMIC94	2647	710391	AC002549	25472	1-330
HLMIC94	2647	710391	AC002549	25473	1-604 1023-1538 2149-2724
HLMIE70	2648	578795	AC007182	25474	1-375
HLMIE70	2648	578795	AC009363	25475	1-375
HLMIE70	2648	578795	AC007182	25476	1-740 744-854 1592-1723
HLMIE70	2648	578795	AC009363	25477	1-740 744-854 1588-1719
HLMIF22	2649	572424	AL355675	25478	1-443
HLMIF22	2649	572424	AL109917	25479	1-443
HLMIF22	2649	572424	AL031282	25480	1-443
HLMIF22	2649	572424	AL109917	25481	1-556
HLMIF22	2649	572424	AL031282	25482	1-69 1327-1657 2022-2406 2714-2920

					4037-4267
					4288-4555
					5074-5678
					5777-8030
HLMIF22	2649	572424	AL031282	25483	1-556
HLMIG50	2651	856845	AL157392	25484	1-1000
HLMIG50	2651	856845	AL157392	25485	1-102
HLMIG50	2651	856845	AL157392	25486	1-431
HLMIG72	2652	799747	AL137796	25487	1-322
HLMIH10	2653	964890	AC016340	25488	1-113
HLMIH10	2653	964890	AC016124	25489	1-115
HLMIH10	2653	964890	AC068594	25490	1-121
HLMIH10	2653	964890	AL356584	25491	1-117
HLMIH10	2653	964890	AP001160	25492	1-101
HLMIH10	2653	964890	AP001857	25493	1-97
HLMIH10	2653	964890	AC002312	25494	1-220
HLMIH10	2653	964890	AC020705	25495	1-443
HLMIH10	2653	964890	AP001857	25496	1-169 1692-1855
HLMIH10	2653	964890	AC020705	25497	1-419 640-1489
HLMIL62	2655	799713	AL133485	25498	1-1411 3036-3162 3272-3340 3541-4264 4508-4609 5170-5734 5893-6047 8467-9913 9962-10261 10901-11033 11871-12567 13536-13660 14112-14314 14328-14487 15227-15359 16175-16323 16704-17083 17919-18599 19621-19763 20773-21572 22280-22821 23337-23538 24044-24163 24634-24798 25662-25850 27342-27750 28174-28377 29957-30116 30273-30666 30686-31069 31261-32075 32383-33075 33145-34122 34231-34917
HLMIL62	2655	799713	AL133485	25499	1-297
HLMIM73	2656	576692	AL355132	25500	1-722

HLMIM73	2656	576692	AL355132	25501	1-583
HLMIO47	2657	531224	AL360081	25502	1-247
HLMIO47	2657	531224	AL137073	25503	1-247
HLMIO47	2657	531224	AL360081	25504	1-120
HLMIO47	2657	531224	AL360081	25505	1-159 1667-2249
HLMIO47	2657	531224	AL137073	25506	1-159 1667-2249
HLMIO47	2657	531224	AL137073	25507	1-95
HLMIP23	2658	686670	AC023315	25508	1-715
HLMIP23	2658	686670	AC003103	25509	1-715
HLMIQ72	2660	715650	AL356423	25510	1-371
HLMIQ72	2660	715650	AL356423	25511	1-161
HLMIQ73	2661	764522	Z82206	25512	1-453
HLMIQ73	2661	764522	Z82206	25513	1-142
HLMIQ93	2662	576657	AC053472	25514	1-448
HLMIQ93	2662	576657	AC013579	25515	1-448
HLMIR23	2663	916938	AL031651	25516	1-406
HLMIR23	2663	916938	AL031651	25517	1-32 1847-2390 3542-4814
HLMIR23	2663	916938	AL031651	25518	1-258
HLMIR40	2664	578756	AF267167	25519	1-533
HLMIR40	2664	578756	AF165145	25520	1-533
HLMIR40	2664	578756	AF267167	25521	1-122
HLMIR40	2664	578756	AF165145	25522	1-108
HLMIS16	2666	572430	AC073863	25523	1-266
HLMIS16	2666	572430	AC009731	25524	1-266
HLMIS16	2666	572430	AC073863	25525	1-111
HLMIS16	2666	572430	AC073863	25526	1-375
HLMIS16	2666	572430	AC009731	25527	1-375
HLMIS16	2666	572430	AC009731	25528	1-236
HLMIS77	2668	971141	AC006237	25529	1-448
HLMIS77	2668	971141	AC023247	25530	1-448
HLMIS77	2668	971141	AC006237	25531	1-299
HLMIS77	2668	971141	AC023247	25532	1-296
HLMIS85	2669	578751	AC025224	25533	1-362
HLMIS85	2669	578751	AC022786	25534	1-362
HLMIS85	2669	578751	AL365439	25535	1-362
HLMIS85	2669	578751	AC022786	25536	1-313
HLMIS85	2669	578751	AL365439	25537	1-291
HLMIS89	2670	572506	AP002774	25538	1-359
HLMIT37	2671	799711	AL354930	25539	1-221
HLMIT37	2671	799711	AL356306	25540	1-216
HLMIT37	2671	799711	AL139415	25541	1-221
HLMIV09	2674	799740	AC013451	25542	1-278 1321-1712 2627-2914
HLMIW07	2675	871698	AL096828	25543	1-1310 3830-3941 3953-4232 6847-8382
HLMIW07	2675	871698	AL096828	25544	1-777
HLMIW90	2677	920464	AC012236	25545	1-352
HLMIW90	2677	920464	AC012236	25546	1-158 178-711

HLMIX61	2678	727730	AF031077	25547	1-1351
HLMIX61	2678	727730	AF031078	25548	1-1351
HLMIX61	2678	727730	AF030876	25549	1-1351
HLMIX61	2678	727730	AF031077	25550	1-443
HLMIX61	2678	727730	AF031078	25551	1-443
HLMIX61	2678	727730	AF031078	25552	1-312
HLMIX61	2678	727730	AF030876	25553	1-443
HLMIX61	2678	727730	AF030876	25554	1-312
HLMIY56	2680	571401	AL034408	25555	1-68 1216-1342 6049-6211 7451-7614 8998-9300 9994-10224 10570-10828
HLMIY56	2680	571401	AL356317	25556	1-303
HLMIY56	2680	571401	AL356317	25557	1-231
HLMIZ25	2682	825087	AL354980	25558	1-1160 1388-1632 1675-2081 2235-2416 3803-3919 4153-4263 4660-4852 5032-5537 5597-5651 5913-6089 6443-6518 7825-8022 8104-8198 8682-9323 9340-9795 10252-10502 10505-10794 11654-11876 12354-12926 13033-13412 13736-14269 17127-17757 18954-19941 20125-20173 20286-20711 20961-22481 22672-22700
HLMIZ25	2682	825087	AL354980	25559	1-608
HLMIZ25	2682	825087	AL354980	25560	1-1396 2316-2700 2755-3306
HLMIZ40	2683	715586	AC025959	25561	1-471 1201-2264
HLMIZ40	2683	715586	AC025963	25562	1-471 1201-2263
HLMIZ40	2683	715586	AC009451	25563	1-471 1201-2263
HLMIZ40	2683	715586	AC009451	25564	1-84
HLMJA66	2686	799731	AL157891	25565	1-335
HLMJA66	2686	799731	AC011006	25566	1-335

HLMJA66	2686	799731	AL138810	25567	1-335
HLMJA66	2686	799731	AL157891	25568	1-363
HLMJA66	2686	799731	AL157891	25569	1-107
HLMJA66	2686	799731	AC011006	25570	1-107
HLMJA66	2686	799731	AC011006	25571	1-363
HLMJA66	2686	799731	AL138810	25572	1-101 192-415
HLMJA66	2686	799731	AL138810	25573	1-363
HLMJA83	2687	712447	AL359982	25574	1-98 1390-1607 4131-4283 4285-4708 5321-5816 5851-6439 6647-6866
HLMJA83	2687	712447	AC073252	25575	1-497
HLMJA83	2687	712447	AL365444	25576	1-98 1390-1607 4131-4281 4285-4708 5321-5817 5851-6439 6646-6867 7611-8056 8170-8852 8939-9282 11023-11096 12424-13388 13885-17084
HLMJA83	2687	712447	AC073252	25577	1-588
HLMJA83	2687	712447	AL365444	25578	1-464
HLMJB04	2688	968284	AC015867	25579	1-873 1202-1306
HLMJB04	2688	968284	AC010189	25580	1-873 1202-1306
HLMJB04	2688	968284	AC015867	25581	1-394
HLMJB04	2688	968284	AC010189	25582	1-394
HLMJB23	2689	578827	AC007608	25583	1-313
HLMJB23	2689	578827	AC007608	25584	1-339
HLMJB60	2690	924974	AC078816	25585	1-831
HLMJC35	2691	576944	AC036149	25586	1-296
HLMJC35	2691	576944	AC015914	25587	1-296
HLMJC35	2691	576944	AC015914	25588	1-337
HLMMA16	2693	576612	AL359678	25589	1-616
HLMMA16	2693	576612	AL356481	25590	1-716
HLMMA16	2693	576612	AL356481	25591	1-333
HLMMA52	2694	920292	AC024076	25592	1-389 496-565 698-729 891-1029 3536-3632 5401-5808 7772-8117 9358-9713 10723-10951 11451-11726

					11767-12359
					12473-12928
					13919-14420
					16636-17012
					18978-19457
					21400-21803
					22127-22231
					22320-22669
					22797-22896
					22961-23001
					23493-23549
					25094-25613
					26878-26995
					27144-27288
					27380-27546
					27608-27792
					29180-29900
					30316-30766
					30802-31007
					31134-31206
					31482-37783
HLMMA52	2694	920292	AC022515	25593	1-91
					220-292
					568-6869
HLMMA52	2694	920292	AC068283	25594	1-3983
HLMMA52	2694	920292	AC024076	25595	1-281
HLMMA52	2694	920292	AC022515	25596	1-451
HLMMA52	2694	920292	AC068283	25597	1-281
HLMMA52	2694	920292	AC022515	25598	1-270
HLMMC72	2696	760717	AC027808	25599	1-211
					1417-1597
					2007-2311
					2392-2833
					4281-4440
					4522-4552
					6009-6624
					7703-7839
					8757-8838
					11322-11453
					11673-12117
					12361-12428
					12955-13417
HLMMC72	2696	760717	AC027808	25600	1-145
HLMMC72	2696	760717	AC027808	25601	1-417
HLMMD28	2699	959900	AC009067	25602	1-616
HLMMD28	2699	959900	AC002400	25603	1-85
					1393-2419
					3977-4103
					6535-6974
					7068-7173
					8297-8779
					8987-9070
					9625-9766
					12772-12856
					12885-13448
					13507-14331
					15008-15134

					15890-16015
					16869-16895
					16977-17412
					18746-19482
					20602-21246
					21642-22094
					22205-22446
					22826-23024
					23121-23147
					23295-23689
					25605-25783
					26069-26446
					26778-26894
					27694-27946
					28077-29329
HLMMD28	2699	959900	AC009067	25604	1-838
HLMMD28	2699	959900	AC002400	25605	1-88
HLMMD89	2700	920442	AL356481	25606	1-45
					156-756
					999-1185
					1414-1553
					2075-2174
HLMMD89	2700	920442	AL356481	25607	1-129
HLMMD89	2700	920442	AL356481	25608	1-102
HLMMG02	2704	920427	AC006274	25609	1-363
HLMMG23	2705	881361	AP002765	25610	1-330
HLMMG23	2705	881361	AP000682	25611	1-330
HLMMG23	2705	881361	AC024604	25612	1-40
					1251-1526
					3898-4003
					4310-4860
					4916-5281
					6931-7261
					7713-8276
HLMMG23	2705	881361	AC069539	25613	1-106
					414-964
					1020-1385
					3035-3364
					3812-4375
HLMMG23	2705	881361	AP002765	25614	1-552
HLMMG23	2705	881361	AC024604	25615	1-531
HLMMG23	2705	881361	AC024604	25616	1-210
HLMMG23	2705	881361	AC069539	25617	1-210
HLMMJ08	2708	959630	AC002126	25618	1-841
					1204-1951
HLMMJ08	2708	959630	AC002126	25619	1-443
HLMMJ08	2708	959630	AC002126	25620	1-593
					3223-3366
					3953-4066
					4910-5334
					6117-6180
					6468-6755
					6876-7478
					7764-7928
					8486-8628
					8785-9007
					9531-10341

					11131-11251 11456-11533 13872-14143 14832-15484
HLMMJ37	2709	577571	AC073670	25621	1-197
HLMMK28	2710	577670	AC026291	25622	1-459
HLMMK28	2710	577670	AC044881	25623	1-459
HLMMK28	2710	577670	AC026291	25624	1-269
HLMMK28	2710	577670	AC044881	25625	1-389
HLMMK28	2710	577670	AC026291	25626	1-389
HLMMK28	2710	577670	AC044881	25627	1-269
HLMMN01	2712	657354	AP001065	25628	1-597 736-1161
HLMMN01	2712	657354	AP001065	25629	1-707
HLMMN01	2712	657354	AP001065	25630	1-542
HLMMN91	2714	795915	AC068625	25631	1-314
HLMMP25	2716	576166	AC021099	25632	1-401
HLMMP25	2716	576166	AC068418	25633	1-362
HLMMP25	2716	576166	AC021099	25634	1-46 1655-1783 1978-2106 3253-3371
HLMMP68	2717	799715	AC019225	25635	1-378
HLMMP68	2717	799715	AC025865	25636	1-378
HLMMP68	2717	799715	AL160006	25637	1-378
HLMMP68	2717	799715	AC019225	25638	1-335
HLMMP68	2717	799715	AC025865	25639	1-335
HLMMP68	2717	799715	AL160006	25640	1-335
HLMMP68	2717	799715	AC019225	25641	1-1113
HLMMP68	2717	799715	AC025865	25642	1-1115
HLMMP68	2717	799715	AL160006	25643	1-1115
HLMMP69	2718	754221	AC015841	25644	1-136 689-805 817-1463 1478-2086 2842-3081 3155-3944 4177-4294 4437-4594 5528-5669
HLMMP69	2718	754221	AC018617	25645	1-136 689-805 1123-1463 1478-2086 2842-3017
HLMMP69	2718	754221	AC004586	25646	1-258 2688-2916 3060-3195 3748-3864 3876-4522 4537-5145 5797-5885 5901-6140 6214-7003 7236-7353 7364-7654

					8590-8731
					9142-9240
					10204-10313
					11117-11214
					11642-11777
					12631-12759
					13157-13491
					13644-13762
					17374-17450
HLMMP69	2718	754221	AC015841	25647	1-99
HLMMP69	2718	754221	AC015841	25648	1-229
HLMMP69	2718	754221	AC018617	25649	1-229
HLMMP69	2718	754221	AC004586	25650	1-672
HLMMR20	2721	799720	AP000172	25651	1-449
HLMMR20	2721	799720	AP000057	25652	1-449
HLMMR20	2721	799720	AP000125	25653	1-449
HLMMR20	2721	799720	AP000172	25654	1-468
HLMMR20	2721	799720	AP000057	25655	1-468
HLMMR20	2721	799720	AP000125	25656	1-468
HLMMR39	2722	711503	AC010633	25657	1-301
HLMMR39	2722	711503	AC010633	25658	1-270
HLMMR39	2722	711503	AC010633	25659	1-420
HLMMT72	2726	799719	AC023195	25660	1-324
HLMMT72	2726	799719	AC023195	25661	1-438
HLMMT72	2726	799719	AC023195	25662	1-375
HLMMT72	2726	799719	AC023195	25663	1-327
HLMMT72	2726	799719	AC023195	25664	1-327
HLMMT72	2726	799719	AC023195	25665	1-327
HLMMT72	2726	799719	AC023195	25666	1-327
HLMMT72	2726	799719	AC023195	25667	1-506
HLMMT72	2726	799719	AC023195	25668	1-327
HLMMT72	2726	799719	AC023195	25669	1-327
HLMMT72	2726	799719	AC023195	25670	1-327
HLMMT74	2727	506234	AL033528	25671	1-318 344-559
HLMMU42	2729	424663	AC010191	25672	1-314
HLMMU42	2729	424663	AC010191	25673	1-497
HLMMV25	2730	799718	AL021938	25674	1-466
					616-1041
					1338-1545
					4778-5280
					8165-8604
					9036-9168
					9233-9705
					11003-11128
					11208-11290
					11483-12329
					13021-13242
					13482-13883
					15168-15274
					15544-16264
					16786-16919
					16933-17077
					17097-17298
					18011-18395
					18679-18863

					18882-19627 21019-21142 22642-25913
HLMMV63	2731	463919	AC016595	25675	1-157 199-475 481-847 1274-1572 2102-2624
HLMMV63	2731	463919	AC008983	25676	1-74 1715-1782 1896-1980 2505-2741 3463-3610 5084-5620 6648-6773 7206-7300 9940-10169 10814-10897 11059-11674 11945-12556 13274-13738 13744-14110 14532-14839 15366-15888 16670-16738
HLMMV63	2731	463919	AC008983	25677	1-328
HLMMV66	2733	926188	AC026954	25678	1-79 496-607 1917-2671 2768-2892 2928-3840 3879-3951 4082-4570 4643-5127 5355-6219 6309-6365 6423-6560 6568-7448
HLMMV66	2733	926188	AC026954	25679	1-886
HLMMW06	2734	935621	AF215849	25680	1-271
HLMMW06	2734	935621	AC019274	25681	1-270
HLMMW06	2734	935621	AF215849	25682	1-90
HLMMW06	2734	935621	AC019274	25683	1-150
HLMMW29	2736	577160	AL158837	25684	1-298
HLMMW37	2738	577153	AC002111	25685	1-366
HLMMW37	2738	577153	AC002313	25686	1-767
HLMMW37	2738	577153	AC002111	25687	1-239
HLMMW44	2739	716797	AC016756	25688	1-412
HLMMW44	2739	716797	AC016756	25689	1-412
HLMMW55	2740	815997	AC022144	25690	1-55 483-549 664-723 944-1166 3284-3774
HLMMW55	2740	815997	AC022144	25691	1-1623 1738-1903 1947-2271

					2512-2576
					2829-3146
					3280-3715
					3736-3956
					4602-5170
					5327-5686
					5789-6737
					6814-6957
					7159-7534
					9179-9355
					12804-12974
					13565-13809
					14282-14606
					14854-14951
					16330-16790
					17067-17631
					19532-19616
					20180-20683
					21415-21499
					22695-23096
					24763-24813
HLMMW71	2741	761346	AL162592	25692	1-438
HLMMW71	2741	761346	AL162592	25693	1-147
HLMMW71	2741	761346	AL162592	25694	1-207
					295-814
					979-1388
HLMMX19	2743	861317	AC021382	25695	1-116
HLMMX19	2743	861317	AP001973	25696	1-102
HLMMX57	2744	734985	AC015969	25697	1-390
HLMMX57	2744	734985	AC015969	25698	1-157
					397-580
					2216-2312
HLMMX72	2745	760651	AC020578	25699	1-1086
HLMMX72	2745	760651	AC019254	25700	1-1086
HLMMX72	2745	760651	AC020578	25701	1-429
					1094-1258
					1389-1594
					2058-2998
					3117-3400
					4156-4437
					5028-5224
					6162-6316
					9343-9463
					10746-11195
					11442-11993
					13524-14380
					14802-14916
					16574-16679
					16844-18286
HLMMX72	2745	760651	AC020578	25702	1-131
HLMMX72	2745	760651	AC019254	25703	1-131
HLMMX72	2745	760651	AC019254	25704	1-430
					1094-1258
					1390-1595
					2059-2999
					3118-3401
					4157-4438

					5029-5225
					6163-6317
					9344-9464
					10747-11196
					11443-11994
					13525-14381
					14803-14917
					16575-16680
					16845-18287
HLMMX73	2746	764455	AC022092	25705	1-303
HLMMX85	2747	783429	AC061994	25706	1-196
HLMMX85	2747	783429	AC061994	25707	1-976
HLMMY01	2748	916636	AC024029	25708	1-582
HLMMY01	2748	916636	AC024029	25709	1-959
HLMMZ16	2751	927659	Z93784	25710	1-443
HLMMZ16	2751	927659	Z93784	25711	1-51
					76-482
HLMNA14	2752	918207	AL139287	25712	1-196
					251-1798
HLMNA14	2752	918207	AC026283	25713	1-47
					1638-1936
					5543-5738
					5793-7339
HLMNA14	2752	918207	AL139287	25714	1-140
HLMNA14	2752	918207	AC026283	25715	1-140
HLMNA14	2752	918207	AC026283	25716	1-243
HLMNA84	2753	577572	AL139807	25717	1-738
HLMNA84	2753	577572	AL139807	25718	1-451
HLMNA84	2753	577572	AL139807	25719	1-344
HLMNA88	2754	856809	AC009950	25720	1-230
					258-522
HLMNA88	2754	856809	AC009950	25721	1-768
					1765-1847
HLMNA88	2754	856809	AC009950	25722	1-368
HLMNA91	2755	765862	AL109743	25723	1-165
					399-476
					486-664
					727-1914
					2622-3581
HLMNA91	2755	765862	AL109743	25724	1-238
HLMNA91	2755	765862	AL109743	25725	1-193
HLMNB08	2756	959559	AC006171	25726	1-289
					1253-1460
					1830-2134
					3755-4011
					5130-5672
					5987-6090
					8007-8430
					8716-8831
					8898-9510
					11067-11453
HLMNB08	2756	959559	AL161645	25727	1-289
					1253-1460
					1830-2134
					3755-4011
					5130-5672
					5987-6090

					8007-8430 8716-8831 8898-9510 11067-11453
HLMNB08	2756	959559	AL360181	25728	1-112 183-786
HLMNB08	2756	959559	AL360181	25729	1-424
HLMNB94	2757	575838	AC027641	25730	1-1416
HLMNB94	2757	575838	AC027641	25731	1-119
HLMNB94	2757	575838	AC027641	25732	1-152
HLMNE84	2758	760695	AC008521	25733	1-347
HLMNE84	2758	760695	AC025267	25734	1-347
HLMNE84	2758	760695	AC008521	25735	1-276
HLMNE84	2758	760695	AC025267	25736	1-128
HLMNH23	2761	787043	AP001812	25737	1-61 203-341 1567-1675 2355-2465 3056-3864 4697-4916 5297-5342 6367-6480 6485-6588 6755-7133 8126-8677 9541-9778 10534-11646
HLMNH23	2761	787043	AP000759	25738	1-61 203-341 1569-1677 2357-2467 3058-3866 4699-4918 5299-5344 6369-6600 6757-7135 8128-8679 9543-9780 10536-11648 12311-12432 12564-14148
HLMNH23	2761	787043	AP000759	25739	1-630
HLMNH25	2762	575921	AC026065	25740	1-100 772-894 1216-1581 1841-2015 2108-2519 3025-3350 3659-4132 6075-6743
HLMNI37	2763	920361	AC009102	25741	1-382
HLMNI37	2763	920361	AC016084	25742	1-382
HLMNI37	2763	920361	AC016084	25743	1-159
HLMNI69	2764	531356	AC068590	25744	1-358
HLMNI69	2764	531356	AC068590	25745	1-187
HLMNL01	2765	835623	AC004798	25746	1-269
HLMNL01	2765	835623	AC003111	25747	1-269